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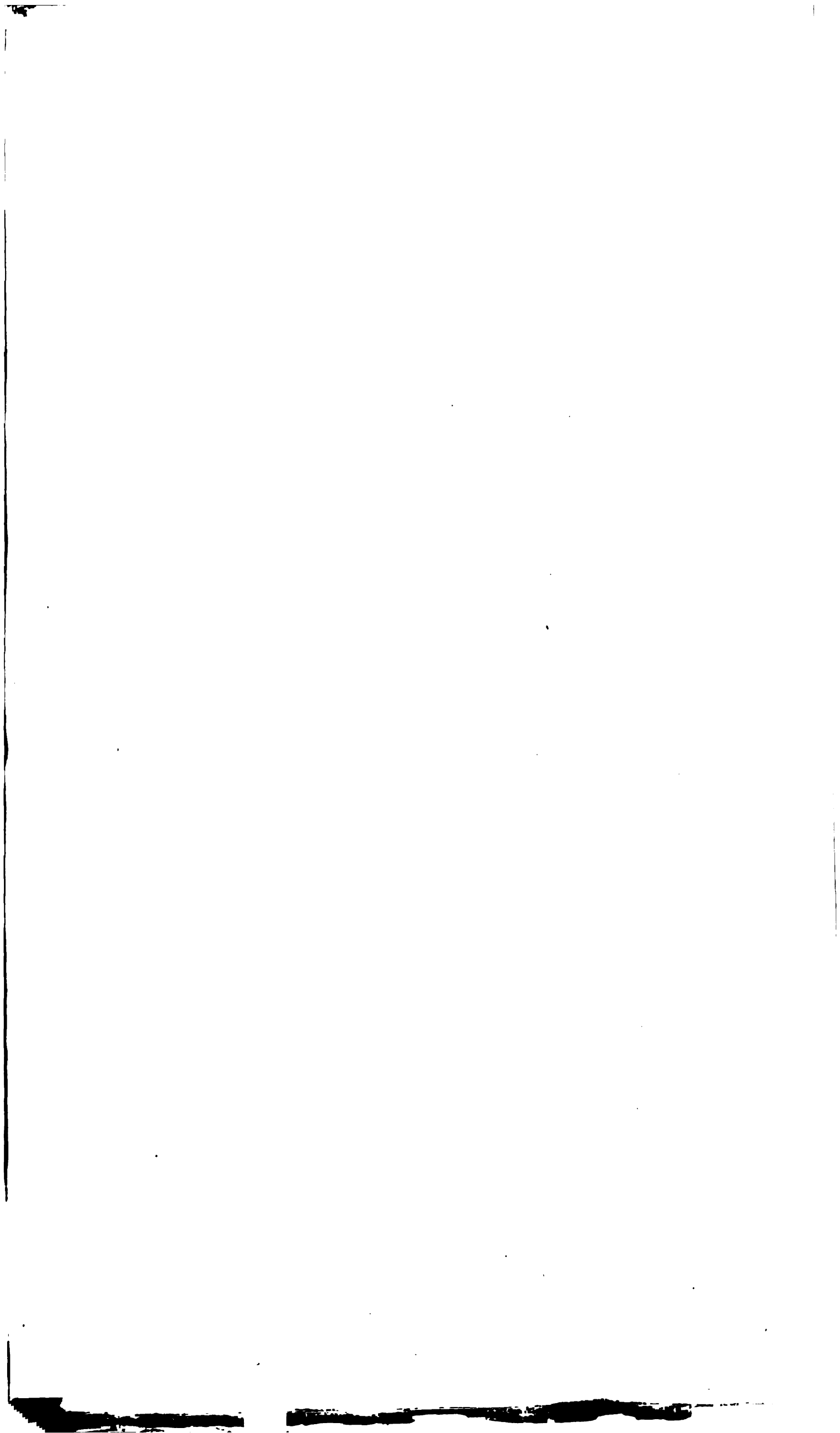
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ROYAL COMMISSION ON LONDON TRAFFIC

Volume V.

MAPS AND DIAGRAMS

FURNISHED TO OR PREPARED BY THE

ROYAL COMMISSION ON LONDON TRAFFIC

NOTICE.

The eight Volumes, containing and accompanying the Report of the Royal Commission on London Traffic, are being issued, as time and circumstances admit, without regard to the stated sequence of the Volumes. Volumes I., II., III., VII., and VIII. have already been issued.

LYNDEN MACASSEY, *Secretary.*



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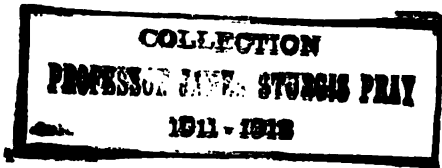
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DEPARTMENT OF
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PREFATORY NOTE

AS TO THE

VOLUMES ISSUED

BY

THE ROYAL COMMISSION ON LONDON TRAFFIC.

The present volume is Volume V. of the eight volumes issued by the Royal Commission on London Traffic, and contains certain of the maps and diagrams prepared for the use of the Commission during its inquiry, and of those handed in by witnesses at the sittings in London to illustrate their evidence. The remainder of such maps and diagrams are contained in Volume VI.

The other Volumes issued by the Royal Commission on London Traffic are:—

VOLUME I.—REPORT OF THE ROYAL COMMISSION ON LONDON TRAFFIC WITH INDEX AND PLANS.

VOLUME II.—MINUTES OF EVIDENCE TAKEN BY THE ROYAL COMMISSION ON LONDON TRAFFIC WITH INDEX AND DIGEST.

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VOLUME VIII.—APPENDIX TO THE REPORT TO THE ROYAL COMMISSION ON LONDON TRAFFIC BY THE ADVISORY BOARD OF ENGINEERS WITH INDEX.

THE CONSTITUTION OF, AND THE INQUIRY
BY
THE ROYAL COMMISSION ON LONDON TRAFFIC.

The Commission, appointed on the 9th February, 1903, by Royal Warrant
(see p. iii. of Volume I.), consisted of:—

Sir DAVID MILLER BARBOUR, K.C.S.I., K.C.M.G., *Chairman.*

The Right Hon Earl CAWDOR.

The Right Hon. Viscount COBHAM.

The Right Hon. Lord RIBBLESDALE.

The Right Hon. Sir JOSEPH COCKFIELD DIMS-
DALE, Bart., K.C.V.O., M.P.

Sir JOHN POYNDER DICKSON-POYNDER, Bart.,
D.S.O., M.P.

Sir ROBERT THRESHIE REID, G.C.M.G., K.C., M.P.

Sir JOHN WOLFE WOLFE-BARRY, K.C.B., F.R.S.

Sir FRANCIS JOHN STEPHENS HOPWOOD, K.C.B.,
C.M.G.

Sir GEORGE CHRISTOPHER TROUT BARTLEY,
K.C.B., M.P.

Sir GEORGE STEGMANN GIBB.

Mr. CHARLES STEWART MURDOCH, C.B.

Mr. FELIX SCHUSTER.

Mr. LYNDEN MACASSEY, M.A., B.Sc., LL.D., *Secretary.*

The Commission were commanded to inquire into the means of locomotion and transport in
London, and to report:—

“(a) As to the measures which they deem most effectual for the improvement of the same
“ by the development and inter-connexion of Railways and Tramways on, or below, the surface;
“ by increasing the facilities for other forms of mechanical locomotion; by better provision
“ for the organisation and regulation of vehicular and pedestrian traffic, or otherwise.

“(b) As to the desirability of establishing some authority or tribunal to which all schemes
“ of Railway and Tramway construction of a local character should be referred, and the powers
“ which it would be advisable to confer upon such a body.”

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GENERAL LIST OF WITNESSES

WITH

REFERENCES TO THE VOLUMES IN WHICH THE EVIDENCE OF, AND DOCUMENTS AND MAPS
HANCED IN BY, SUCH WITNESSES, APPEAR.

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ROYAL COMMISSION ON LONDON TRAFFIC.

GENERAL LIST OF WITNESSES

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OF, AND DOCUMENTS AND MAPS HANDED IN
BY, SUCH WITNESSES APPEAR.

A DIGEST OF EACH WITNESS'S ORAL EVIDENCE APPEARS IN VOLUME II.

** The pages in the Digest are given in Italics.*

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BANTICK, Mr. HORACE	Superintendent of the D. Division of the Metropolitan Police.	292-296 <i>996</i>	8065-8199			
BARBER, Mr. J. PATTEN	Member of the Institution of Civil Engineers, and Engineer to the Metropolitan Borough of Islington.	365-369 <i>1014</i>	10717-10870	24		
BATES, Mr. HENRY MONTAGUE	Principal Clerk to the Public Health Department of the Corporation of the City of London.	820-833 <i>1117</i>	22255-22639	69		xc.-xcviii.
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BELLAMY, Mr. C. R.	Associate Member of the Institution of Civil Engineers; General Manager of the Liverpool Corporation Tramways.	933-941 <i>1150</i>	25462-25745	83		cx.-cxi.
BENN, Mr. J. W.	Member of the London County Council, and Chairman of the Highways Committee of the Council.	195-215 <i>972</i>	5269-5777	7	x.-xii.	
BLAIR, Mr. WILLIAM NISBET	Member of the Institution of Civil Engineers, and Surveyor and Engineer to the Metropolitan Borough of St. Pancras.	378-385 <i>1017</i>	11129-11349	27		
BOOTH, Mr. CHARLES, F.R.S., etc.	Author of "Life and Labour of the People in London."	691-695 <i>1086</i>	18996-19109			
BOWER, Capt. JOHN WILLIAM NOTT	Commissioner of the City of London Police.	511-520 <i>1045</i>	14840-15090	45		
BRADLEY, Mr. JAMES WILLIAM	Member of the Institution of Civil Engineers; Surveyor and Engineer to the Corporation of the City of Westminster.	441-449 <i>1030</i>	12887-13116	37		xxxvi.- xxxvii.
BRERETON, Mr. CUTHBERT ARTHUR	Member of Council of the Institution of Civil Engineers.	866-871 <i>1130</i>	23571-23765	75		ciii.a-b.
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CONACHER, Mr. JOHN	General Manager of the Metropoli- tan Electric Supply Company.	860-863 1128	23399-23483	73		cii. a-b.
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CRAWFORD, Sir HOMEWOOD	Solicitor to the Corporation of the City of London.	889-895 1136	24297-24448	79		cvii.-cviii.
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SCOTTER, Mr. R. H.	Member of the Institution of Mechanical Engineers; Member of the Institute of Electrical Engineers of Munich; and Member of the Council of the Tramways and Light Railways Association.	327-330 1048	15295-15423			
SELLON, Mr. STEPHEN	Member of the Institution of Civil Engineers; Consulting Engineer to the British Electric Traction Company.	449-473 1032	13117-13868	38		xxxviii.- xlix.f.
SHADRAKE, Mr. W. G., J.P.	Chairman of the Leyton Urban District Council.	524-527 1047	15188-15294			lvi.
SPEYER, Mr. EDGAR	Financier.—Partner in the firm of Messrs. Speyer Brothers of London and New York, and of Messrs. L. Speyer-Elissen of Frankfort-on-Main.	257 900-906 1139	6881-6885 24604-24775	81		cviii.a.-f.
STENNING, Mr. ALEXANDER ROSE	Surveyor	871-873 1131	23766-23843			
STEWART, Mr. HENRY ALLAN	Member of the Light Railway Commission.	34-39 949	1064-1264			
SWINTON, Mr. A. A. CAMPBELL	Member of the Institution of Civil Engineers, Chairman of the London and District Motor 'Bus Company, Limited.	925-930 1148	25290-25410			
SZLUMPER, Sir JAMES	Member of the Institution of Civil Engineers; Engineer for the Great Northern, Piccadilly and Brompton Railway.	772-778 1105	20929-21119			
TURNER, Dr. E. B., F.R.C.S.	Vice-President of the National Cyclists' Union.	722-725 1094	19666-19752			
TYLER, Mr. WALTER WILLIAM	Member of the Borough Council of Bermondsey.	415-417 1024	12234-12286	33		
WALLER, Mr. J. EDWARD	Member of the Institution of Civil Engineers.	566-581 1057	16049-16314			
WEBBER, C.B., Major-General C. E.	Retired Officer of the Royal Engineers; formerly a Vestryman of Kensington; an official in the Postal Telegraph Service, and the Chief Engineer of the City of London Electric Lighting Company.	696-703 1087	19138-19336	58		lxxviii.
WHUR, Mr. ROBERT FREDERICK	Member of the Metropolitan Borough Council of Paddington and Chairman of the Works Committee.	372-378 1015	10947-11128	26		
WILLIS, Mr. ALFRED	A Director of the Baker Street and Waterloo Railway Company; formerly Solicitor to the South-Eastern Railway Company; General Manager of the same Company, and General Manager of the South-Eastern and Chatham Railway Companies' Managing Committee.	789-799 1109	21327-21647			
YERKES, Mr. CHARLES T.	Chairman of the Underground Electric Railways Company of London, Ltd.	741-749 1098	20112-20313	61		
YORKE, R.E., Lieut. Col. H. A.	Chief Inspecting Officer of Railways to the Board of Trade.	12-34 946	403-1063			
YOUNG, Mr. ANDREW	Valuer to the London County Council.	266-275 990	7107-7404	12	xviii.	

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OF THE
MAPS AND DIAGRAMS CONTAINED IN THIS VOLUME
AND IN
VOLUME VI.
IN THE ORDER IN WHICH THEY APPEAR.

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ROYAL COMMISSION ON LONDON TRAFFIC.

LIST OF THE MAPS AND DIAGRAMS

CONTAINED IN
VOLUMES V. AND VI.

AND REFERRED TO IN
VOL. I.—REPORT OF THE COMMISSION.
VOL. II.—MINUTES OF EVIDENCE.
VOL. III.—APPENDICES TO EVIDENCE.
VOL. IV.—APPENDICES TO REPORT OF COMMISSION.
VOL. VII.—REPORT OF THE ADVISORY BOARD OF ENGINEERS.

NOTE:—The Maps and Diagrams contained in this Volume are printed in Roman characters, *those contained in Volume VI. are printed in Italics.*

IN VOLUME V.

MAPS.

(a) PREPARED BY THE COMMISSION.

Plate No. (See Vol. v.)	Description.
A (2 Sheets)	Plan showing the Boundary, Area, and Population of the City of London, Administrative County of London, "Greater London," Metropolitan Boroughs, County and Municipal Boroughs, and Parishes in whole or in part within a radius of 20 miles from Charing Cross.
B	Plan showing the Tramway systems, existing and authorised in the Metropolis and neighbourhood, and the Tramways proposed but not sanctioned during Sessions 1900–1905 inclusive.
C	Plan showing the Electric Railways, existing and authorised in the Metropolis and neighbourhood, and the Electric Railways proposed but not sanctioned during the Sessions 1901–1905 inclusive.
D	A Plan of the Steam Railways serving London, appears as the "Railway Plan" at page 78 of Vol. I.
E (3 Sheets)	Plan showing the position of the Principal Goods Depôts in the Metropolis and neighbourhood.
F (3 Sheets)	Plan showing the position of the Principal Factories in the Metropolis and neighbourhood.

MAPS AND DIAGRAMS.

(b) HANDED IN BY WITNESSES.

Plate No. (See Vol. v.)	Name of Witness.	Description.
I.	Mr. J. H. Lukach - - -	Plan showing the routes of the Metropolitan Railway, of Paris. (Plan du Chemin de fer Métropolitain de Paris).
II.	Sir Richard Nicholson - -	Plan of the County of Middlesex, showing the Middlesex County Council's Tramway and Light Railway System.
III.	Mr. G. Laurence Gomme -	Plan showing the "Limits" from which the Royal Commission on Metropolitan Railway Termini, 1846, recommended Railway Termini should be excluded.

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IXa.	" " - - -	Plan showing the position of the Estates purchased and developed by the London County Council for the Housing of the Working Classes and the Insanitary Areas cleared.
X.	Mr. J. Williams Benn - -	Map A. London Street Tramways as they existed in 1896 before the London County Council began to purchase.
XI.	" " - - -	Map B. London Street Tramways as they existed at the date on which witness handed in the map (July, 1903).
XII.	" " - - -	Map C. London Street Tramways—showing the extensions proposed by the London County Council and rejected by Parliament, or "vetoed" by the Road Authorities.
XIII.	Mr. Maurice Fitzmaurice, C.M.G., M.Inst.C.E.	Cross-Section of the Strand showing the existing sub-surface pipes, &c.
XIV.	" " - - -	Cross-Section of Pall Mall showing the existing sub-surface pipes, &c.
XV.	" " - - -	Cross-Section of Knightsbridge widening showing the existing sub-surface pipes, &c.
XVI.	" " - - -	Cross-Section at Vauxhall Cross showing the existing sub-surface pipes, &c.
XVII.	" " - - -	Plan showing the Subways for pipes constructed and under construction in London, 1857-1903.
XVIII.	Mr. Maurice Fitzmaurice, C.M.G., M.Inst.C.E., and Mr. A. Young.	Plan of Kingsway, the new thoroughfare from Holborn to the Strand.
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1/1 Streets - Cross-section etc.
S. 1/1 Streets - Cross-section etc.

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XXVIII.	Mr. J. R. Dixon, Assoc. M.Inst. C.E.	Plan of the Metropolitan Borough of Shore-ditch, with suggested improvements.
XXIX.	Mr. A. Harrison, Assoc. M. Inst. C.E.	Plan of the Metropolitan Borough of Southwark, with suggested improvements.
XXX.	Mr. J. M. Levy - - -	Plan of the Metropolitan Borough of Hammersmith, showing suggestions for improvement in railway accommodation and application of Tramway Service.
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<i>CIHa</i>	<i>Mr. C. A. Brereton, M.Inst.C.E.</i>	<i>Plan showing the routes of suggested Thoroughfares in London.</i>
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MAPS AND DIAGRAMS.

In cases where, on the Maps and Diagrams, the "Evidence" or an "Appendix" is referred to, the reference in the former case is to the question number or numbers of the relevant portion of the evidence in Volume II., and, in the latter, to the relevant appendix in Volume III.

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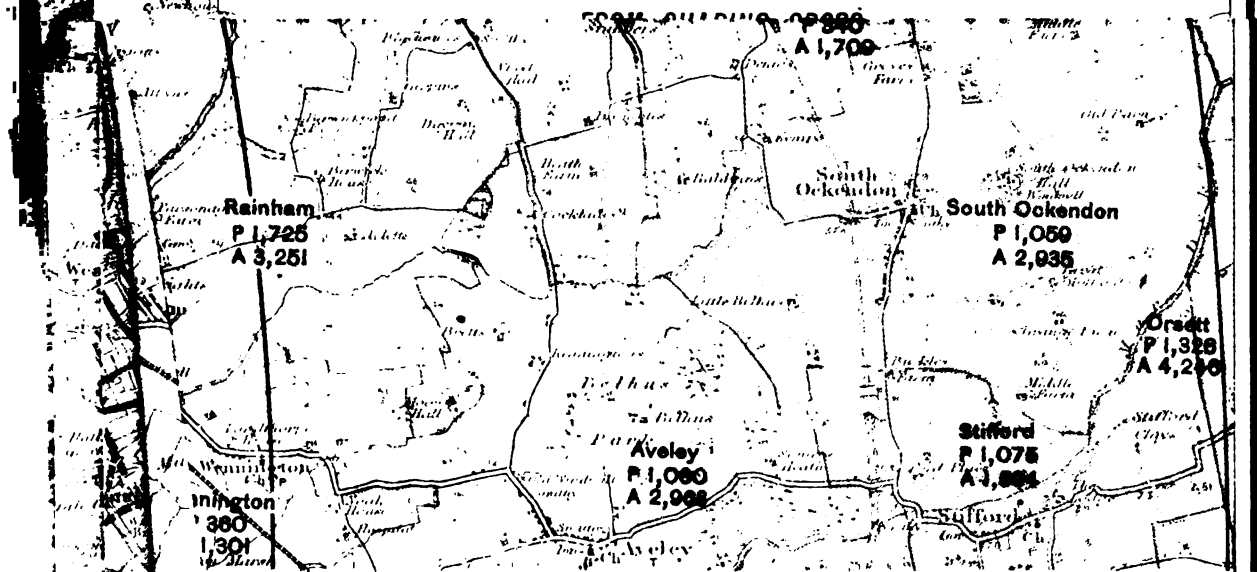
Plate A.

LONDON

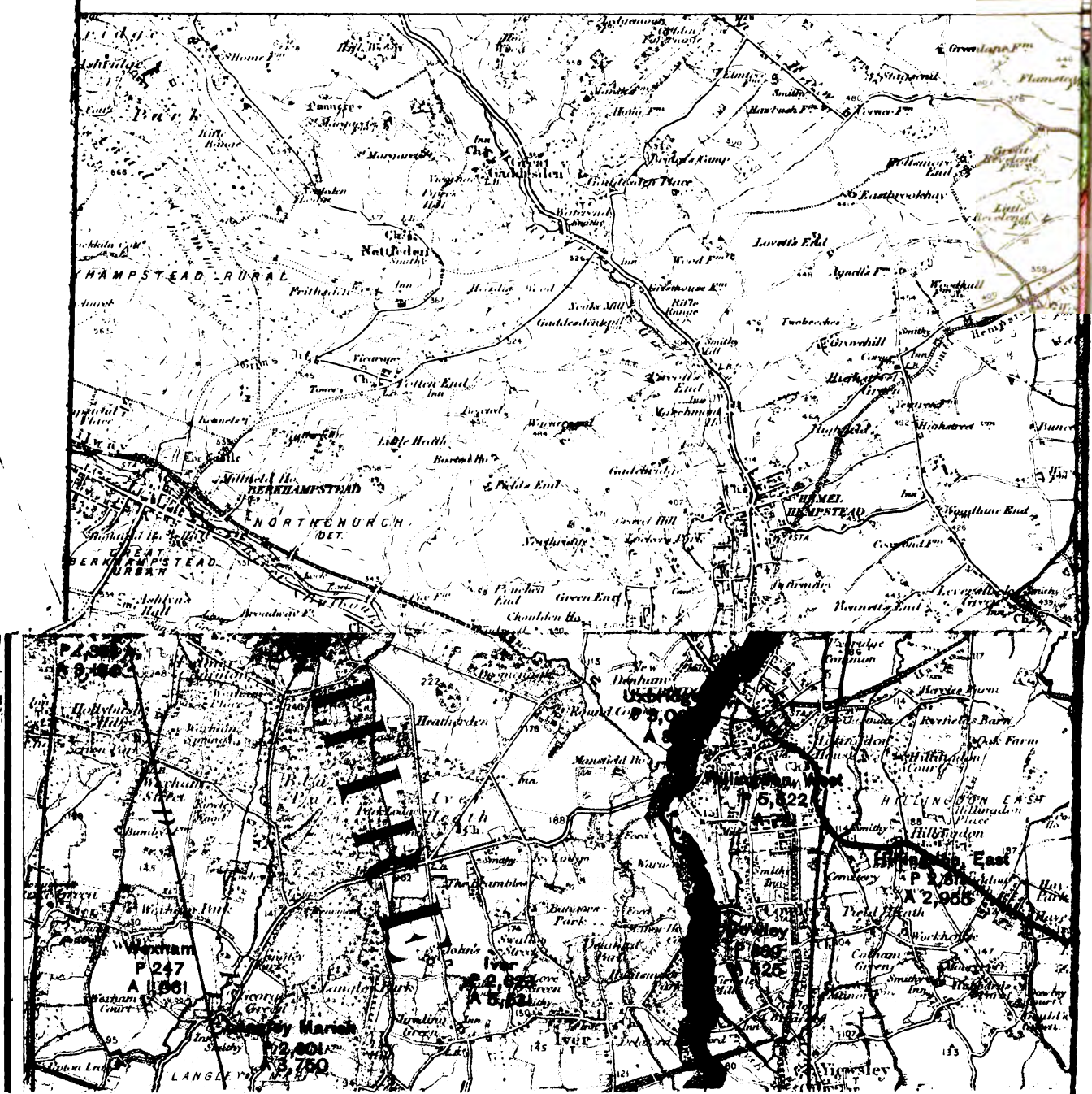
AND ENVIRONS.

PLAN SHOWING THE
BOUNDARY, POPULATION, & AREA OF
THE CITY OF LONDON, ADMINISTRATIVE
COUNTY OF LONDON, METROPOLITAN, COUNTY
AND MUNICIPAL BOROUGHES,
AND
THE PARISHES

IN WHOLE OR IN PART WITHIN A RADIUS OF 20 MILES

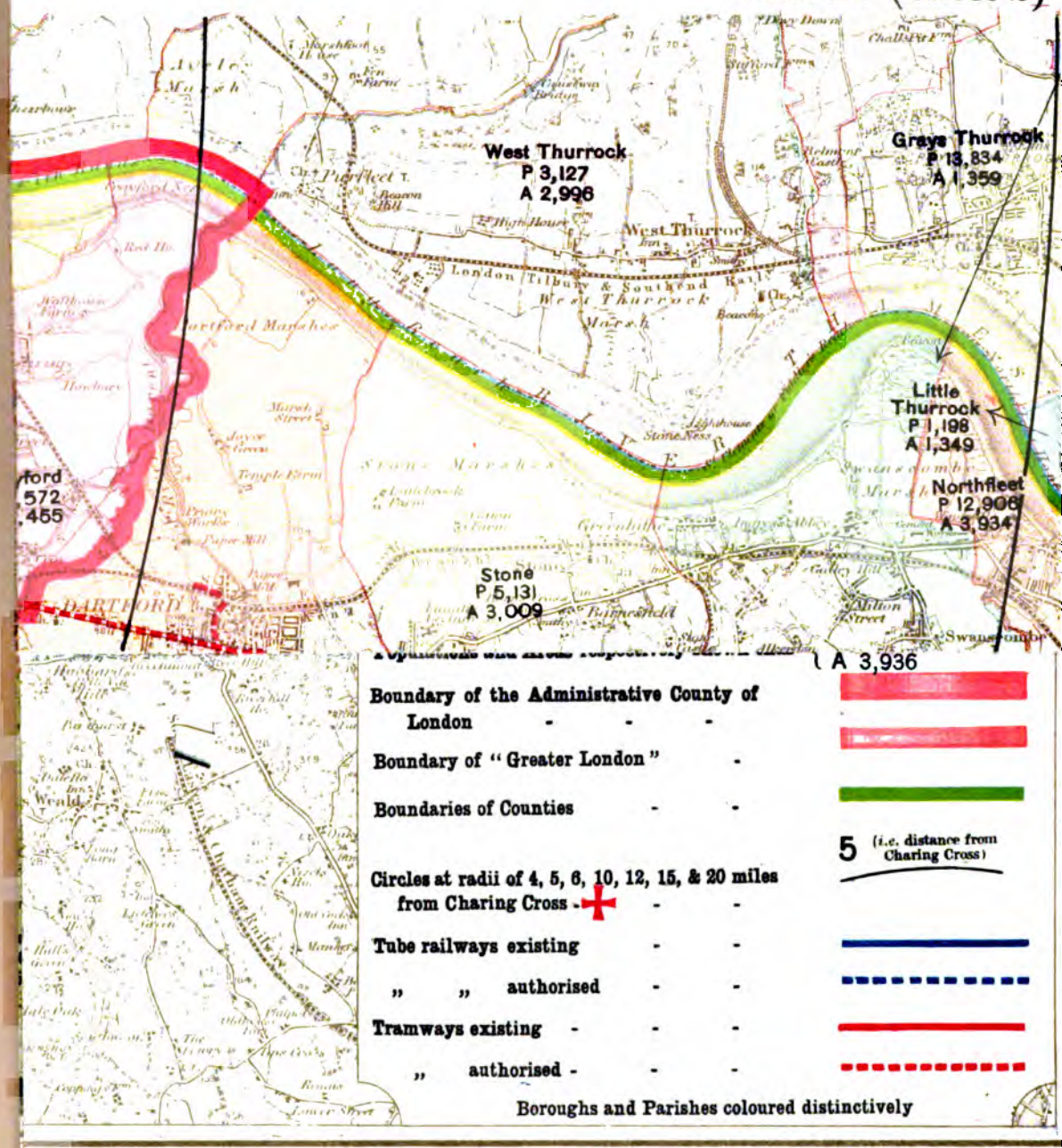


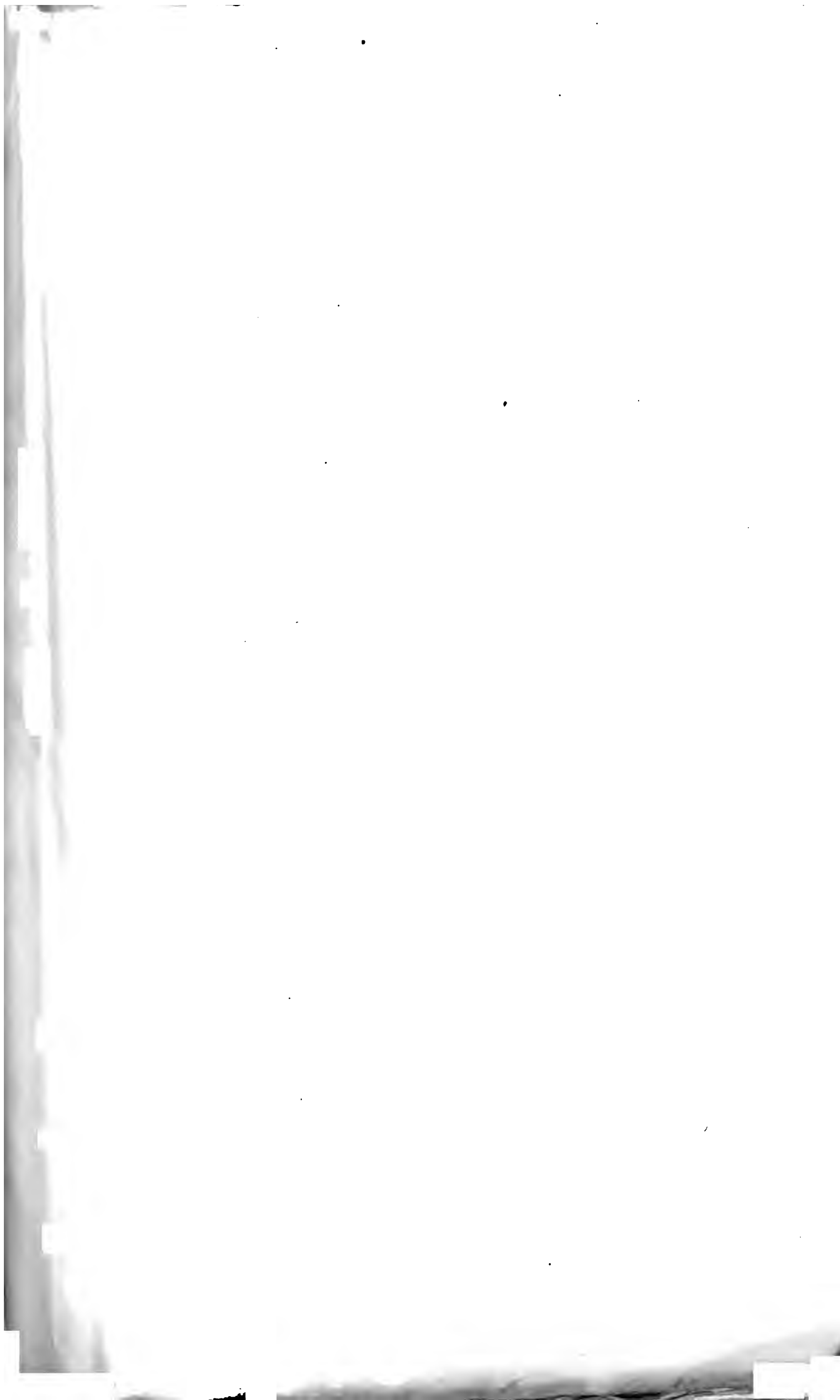
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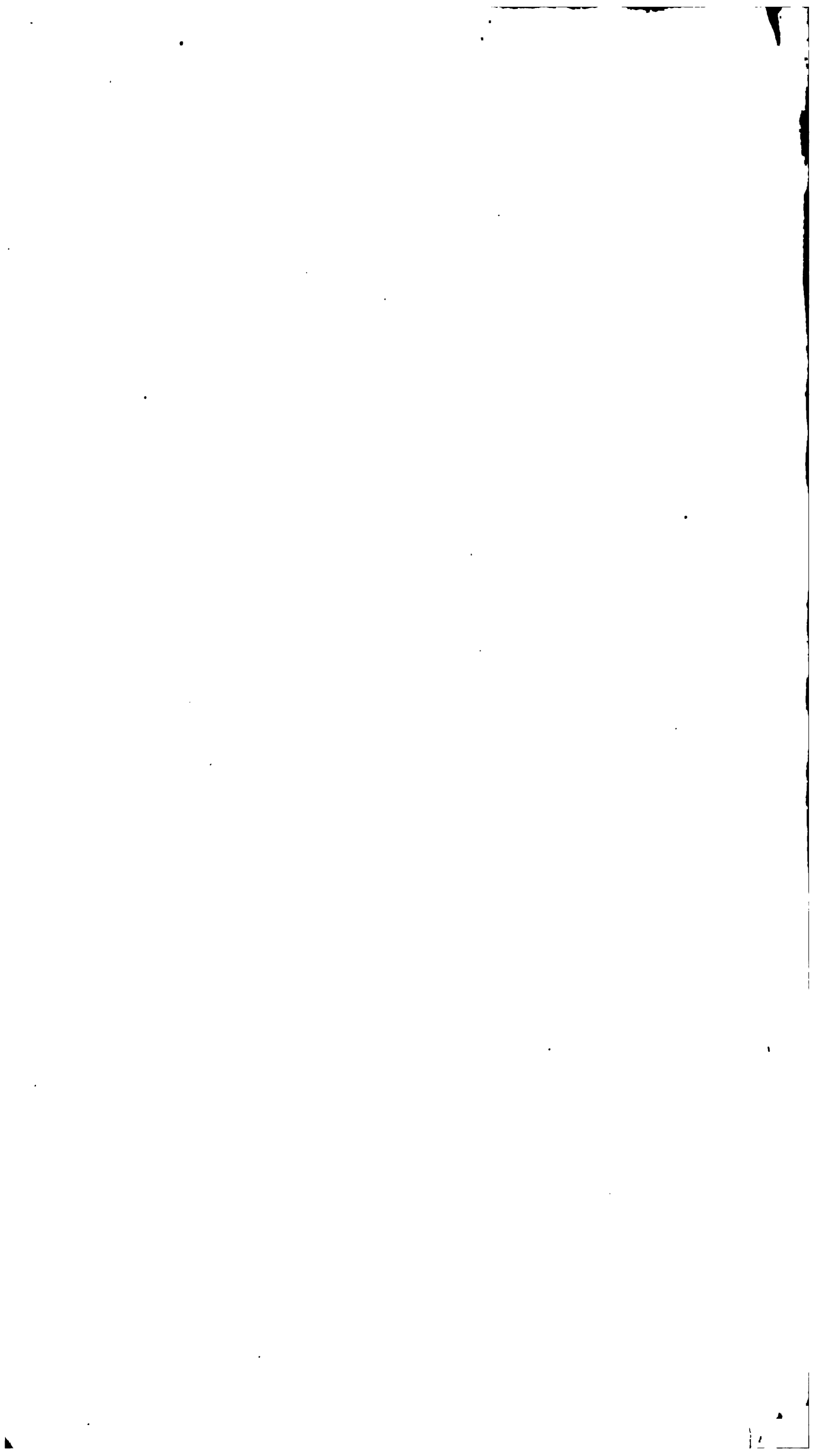


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Plate A. (Sheet 2)







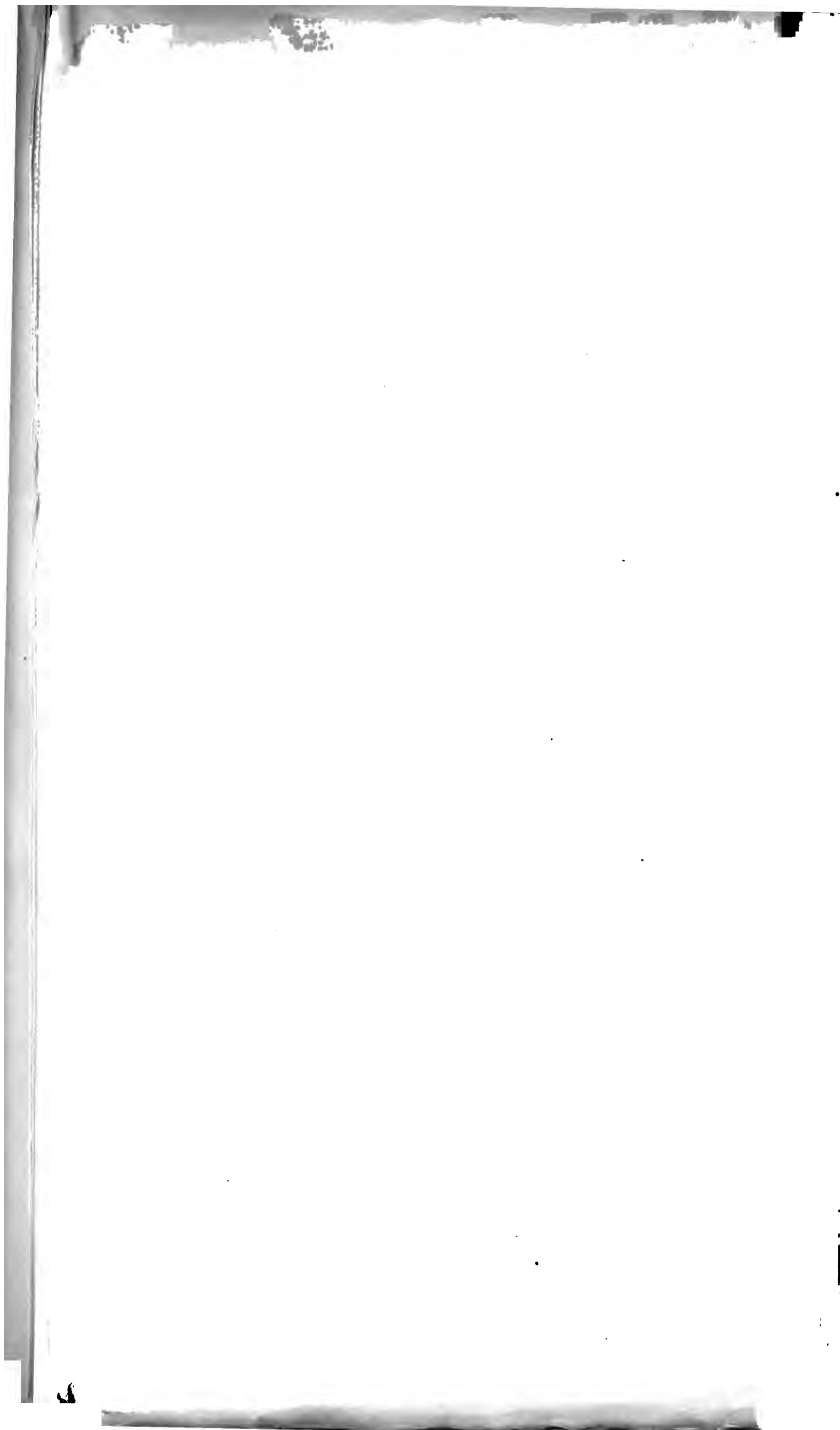


PLATE B



Plate B.
TRAMWAYS EXISTING AND
AUTHORISED IN METROPOLIS
AND NEIGHBOURHOOD.
PROPOSALS NOT SANCTIONED.
Sessions 1900—1905.

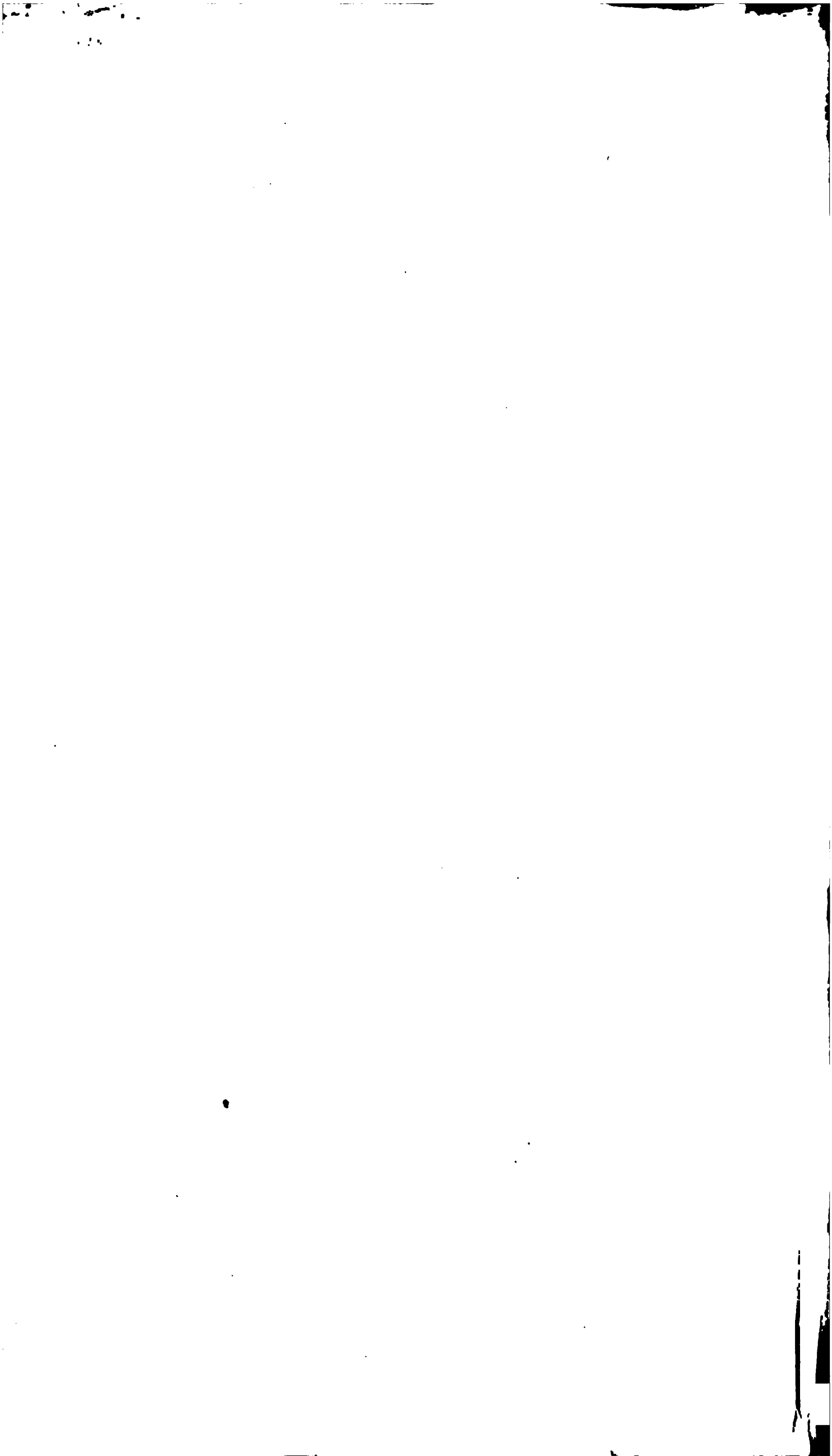


PLATE C

RAILWAYS PROPOSED.

SESSION 1902—continued.

NO.	NAME OF RAILWAY.	DESCRIPTION OF ROUTE.
D	PICCADILLY AND CITY RAILWAY. No. 2.	Joins (1901) Scheme, Route No. 10, at Piccadilly Circus, runs west along Piccadilly, Knightsbridge, Hammersmith Road, to north side of Hammersmith Bridge.
EN	VICTORIA, KENNINGTON, AND GREENWICH RAILWAY.	Joins No. 12 (1901), in Camberwell New Road to Camberwell Green, Peckham Road, New Cross Road, Greenwich Road, and stops at Naval Hospital, Greenwich.
D	KING'S ROAD RAILWAY. PUTNEY EXTENSION.	From termination of Route No. 8, proposed Session 1901, Eel Brook Common, to High Street, Putney.

EN	CITY AND NORTH-EAST LONDON RAILWAY.	Smith Bridge, along Hammersmith Road, Knightsbridge, Piccadilly, Strand, Fleet Street, Upper Thames Street to Monument Station, then follow the route of No. 32b (1903), to Palmer's Green, also a branch line to Walthamstow from Stamford Hill.
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Weller & Graham Ltd. Litho London.

Plate C.
ELECTRIC RAILWAYS
IN
THE METROPOLIS.
EXISTING AND AUTHORISED
AND THOSE
PROPOSED.
Sessions 1901—1905.

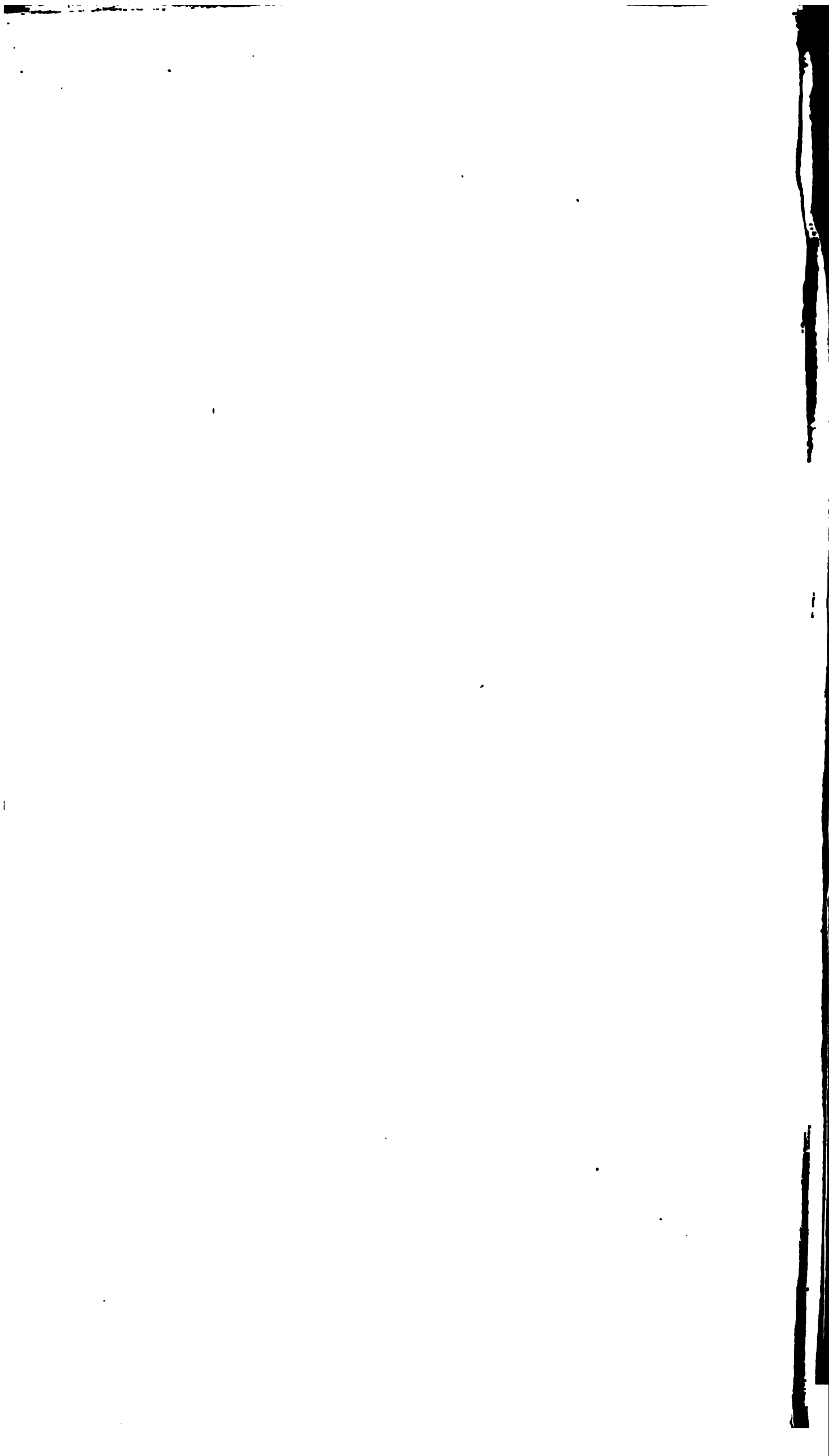
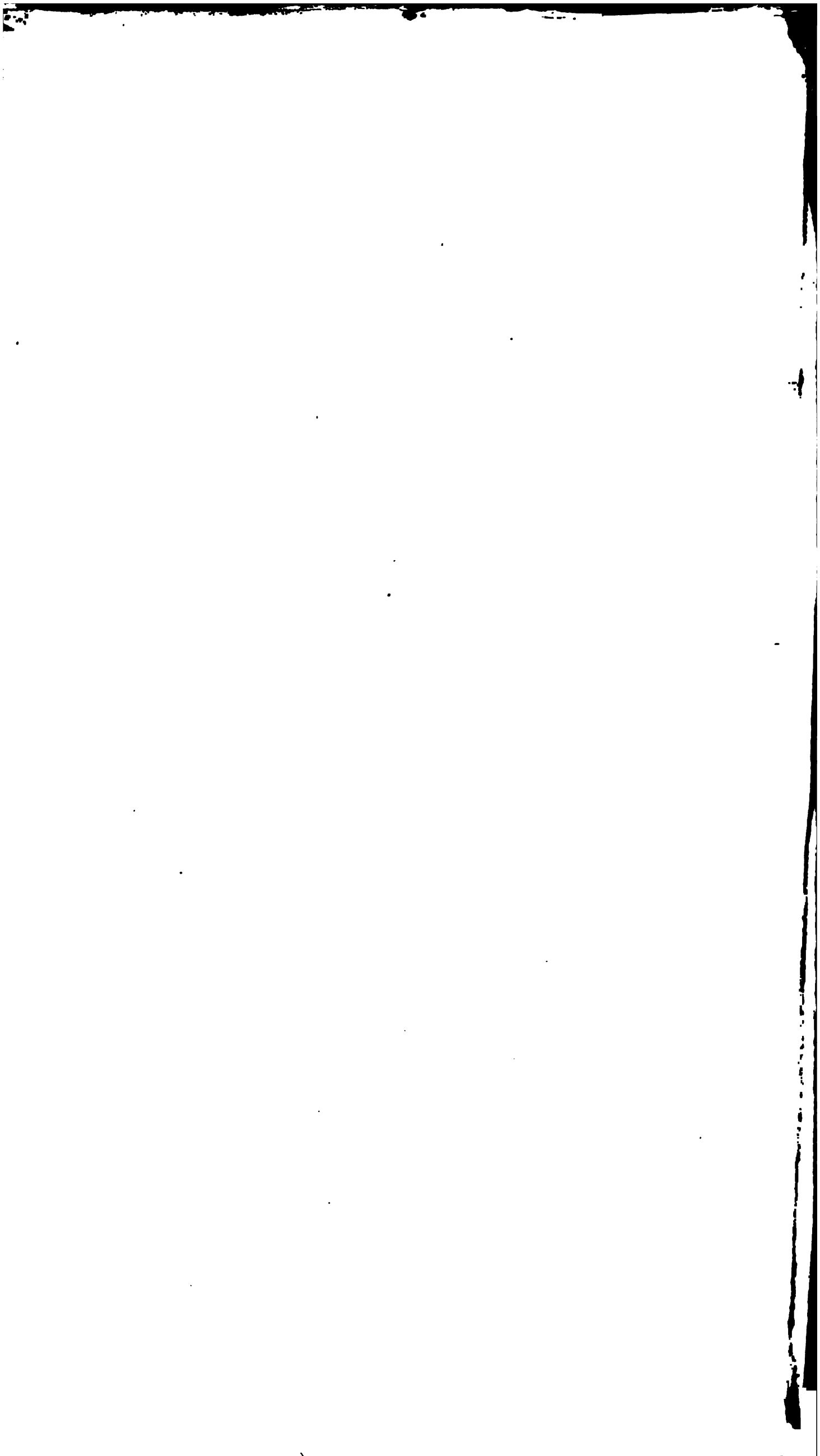


PLATE E

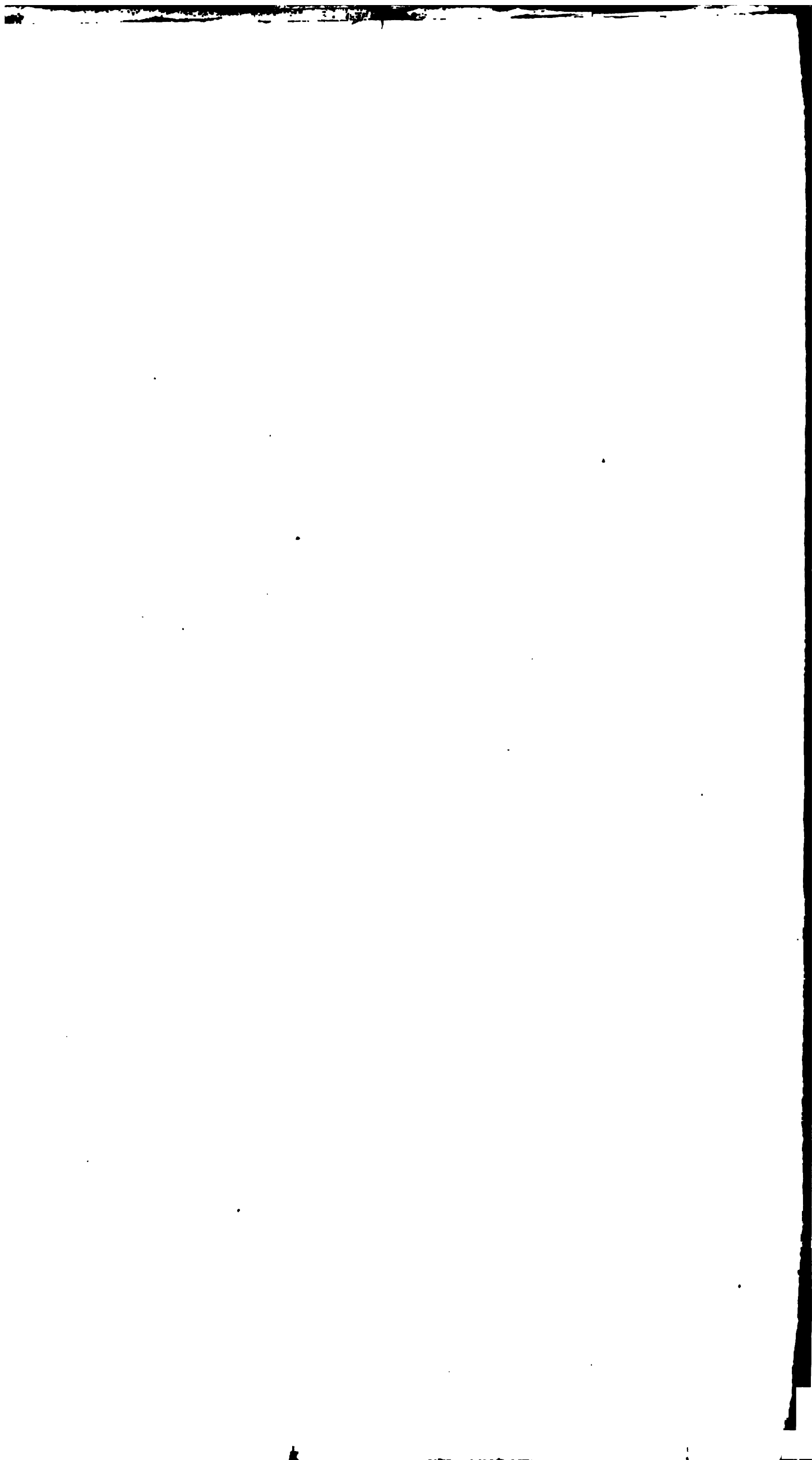






Sheet 2

Joins Sheet 3

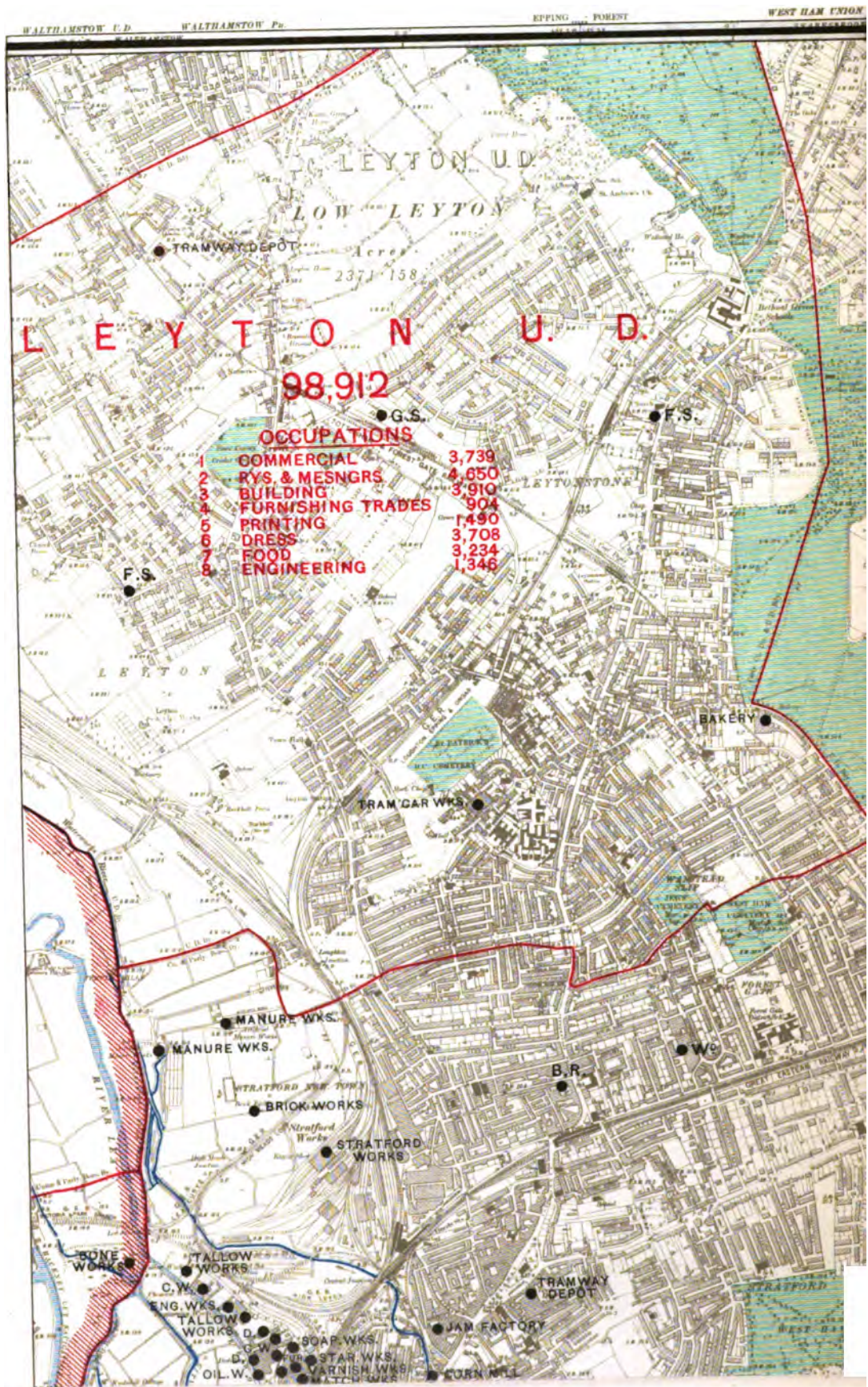


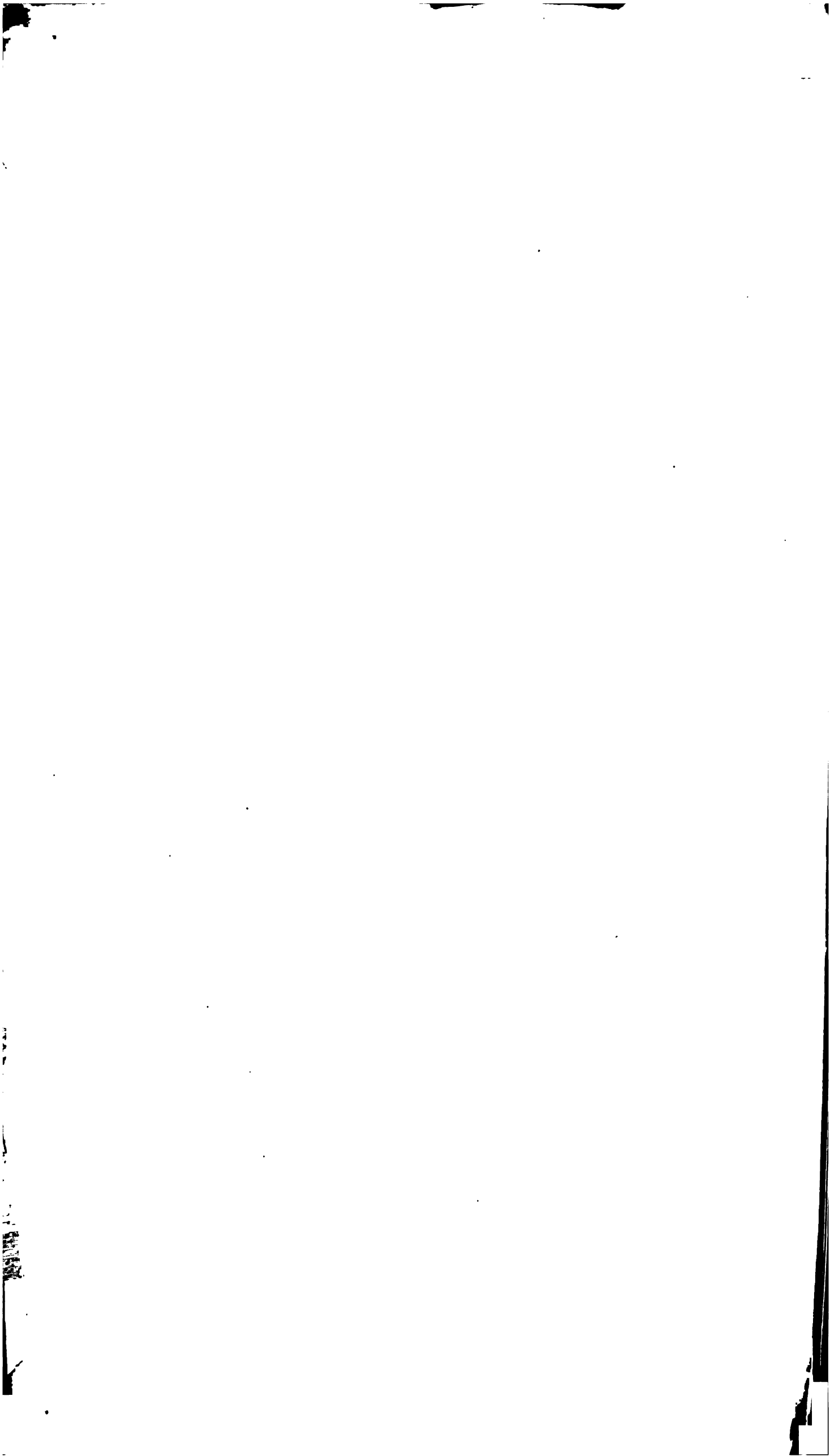


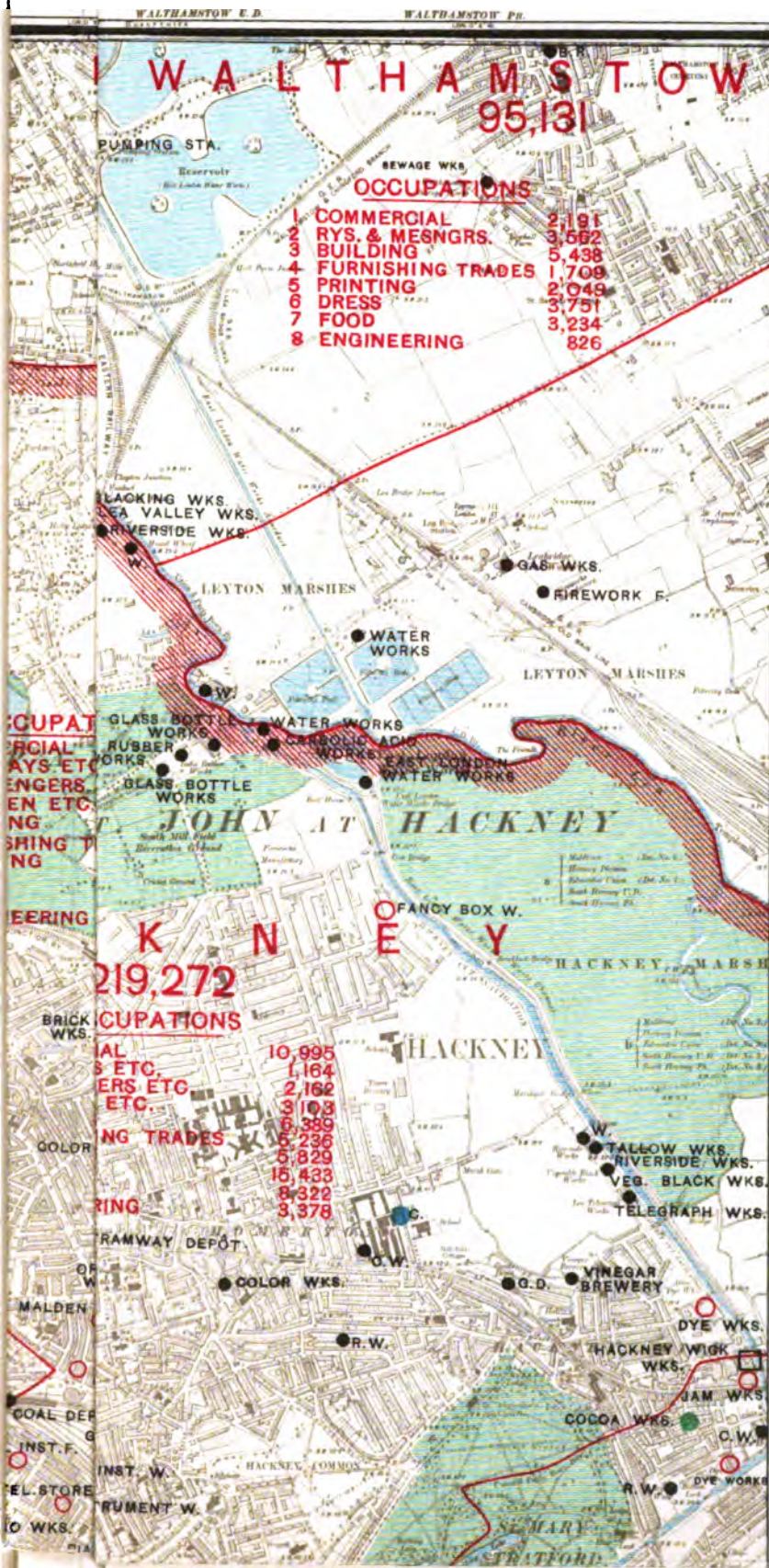
Sheet 1 Joins Sheet 2



Sheet 3.
Joins Sheet 2.



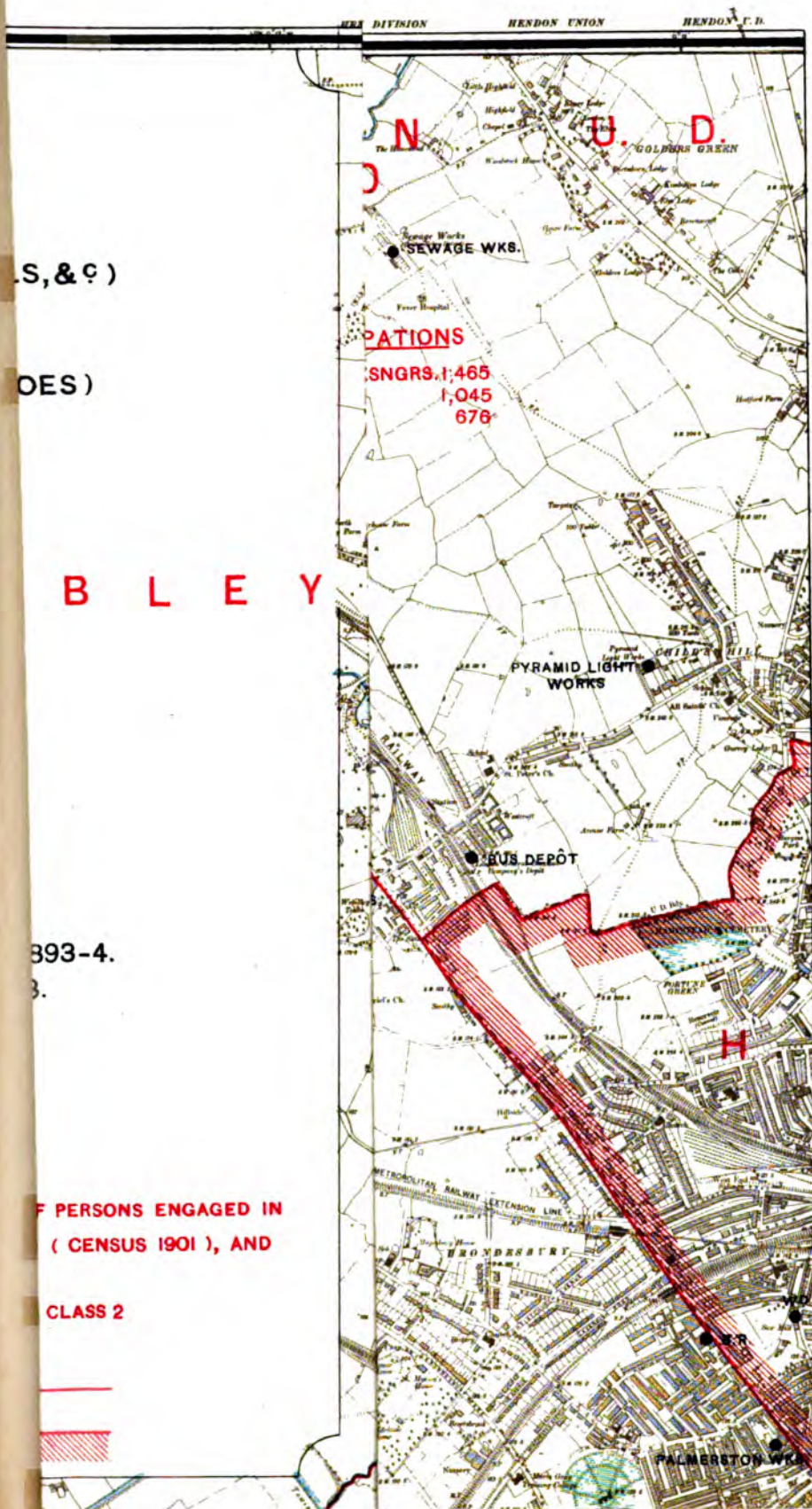




Sheet 2. Joins Sheet 3.



CLASS 2



Sheet 1. Joins Sheet 2.



Plate I

Plate I

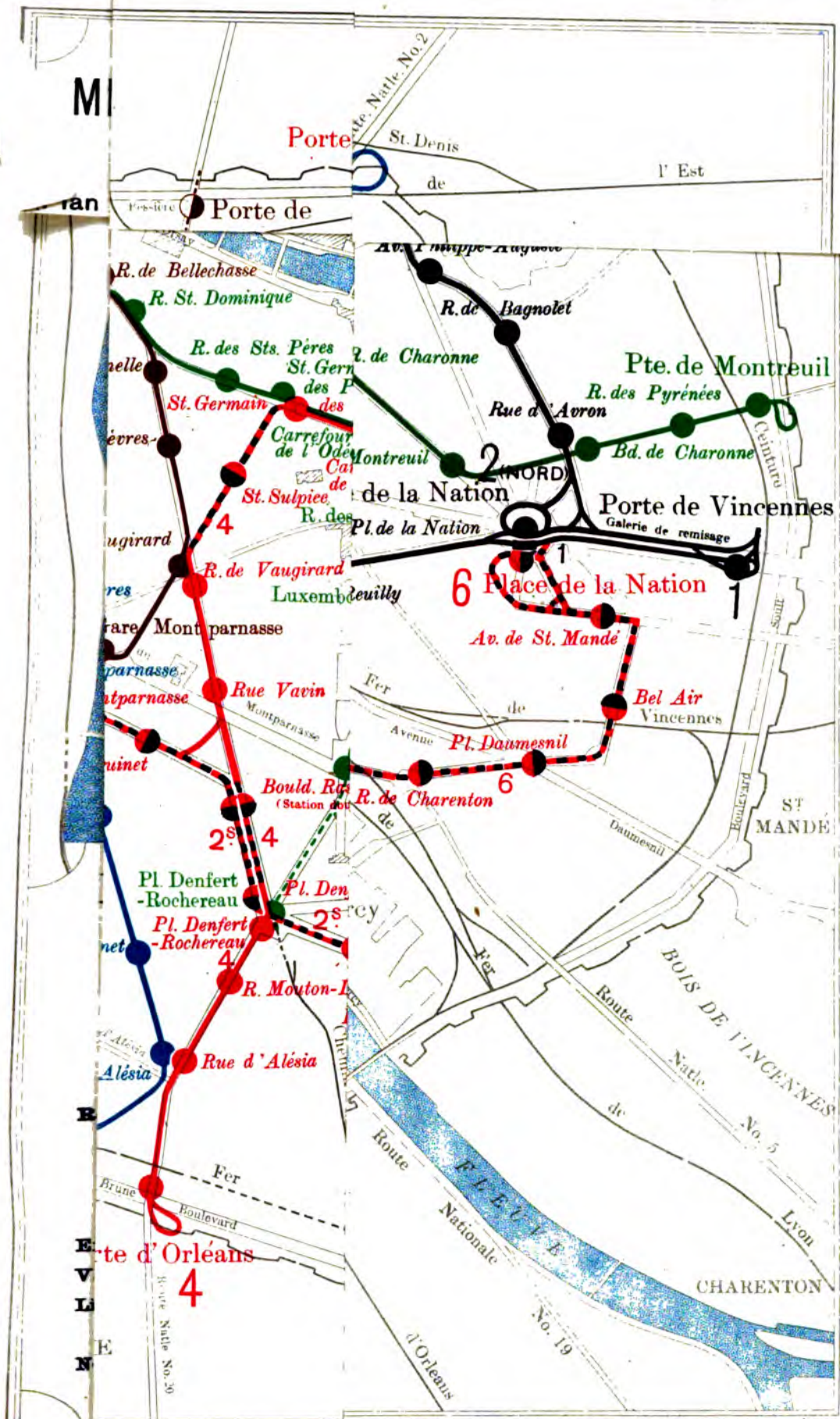


Plate I
Plan of Paris.
Underground Railway.



Plate II.

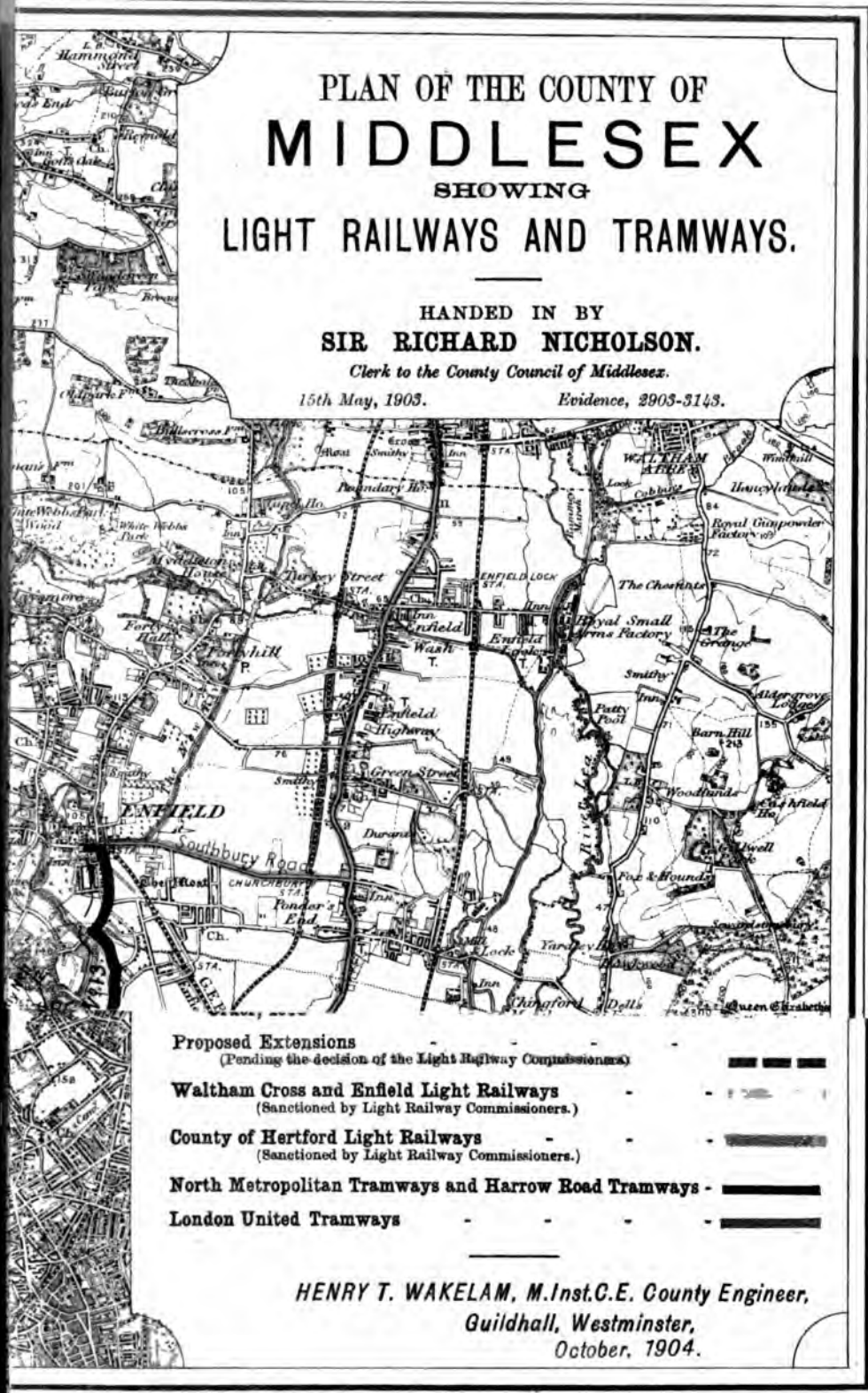


Plate II
Middlesex Light Railways
and Tramways.
Sir R. Nicholson.
15th May, 1903.
Evidence, 2903-3143.
Appendix No. 4.

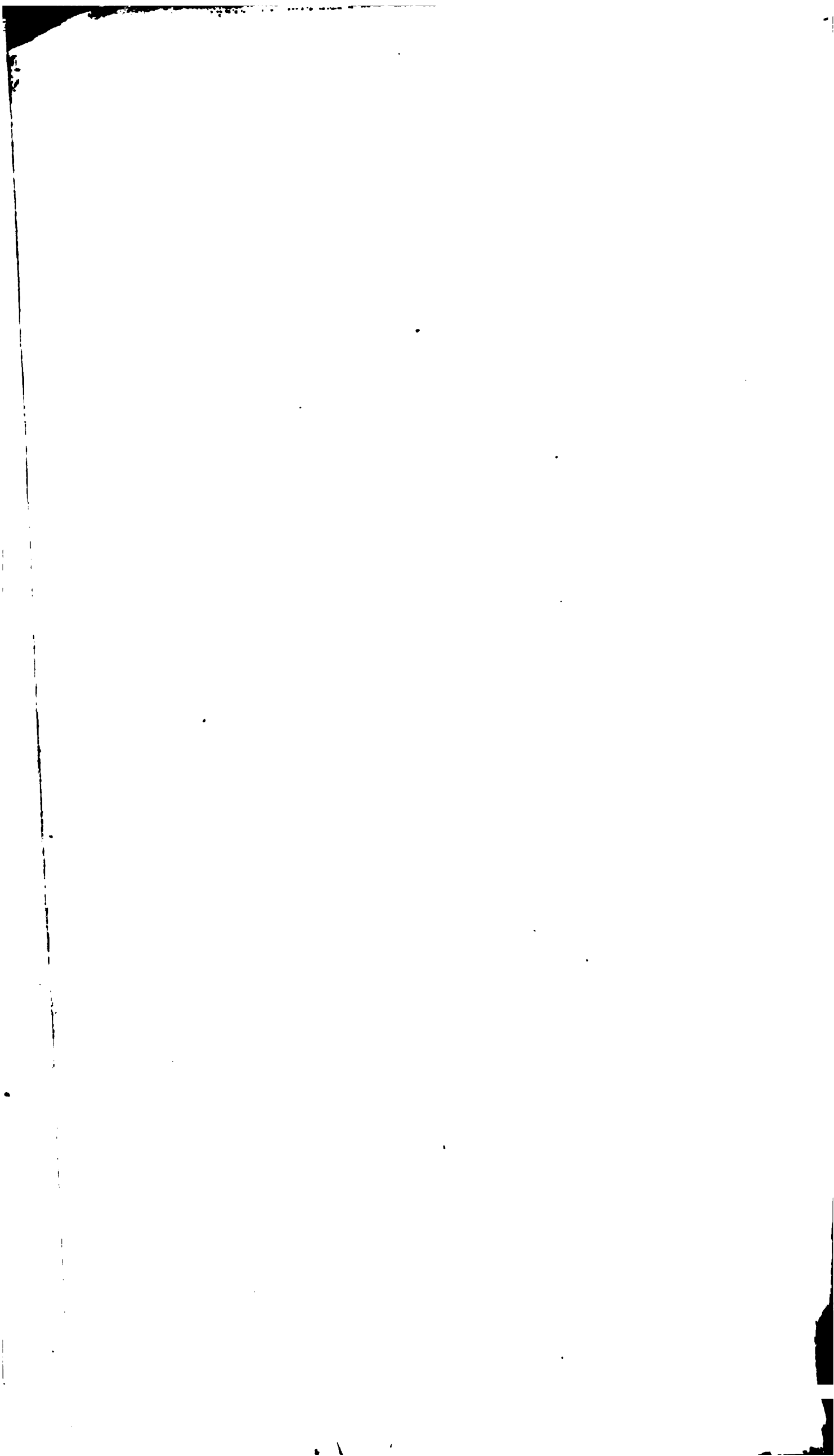


Plate III.

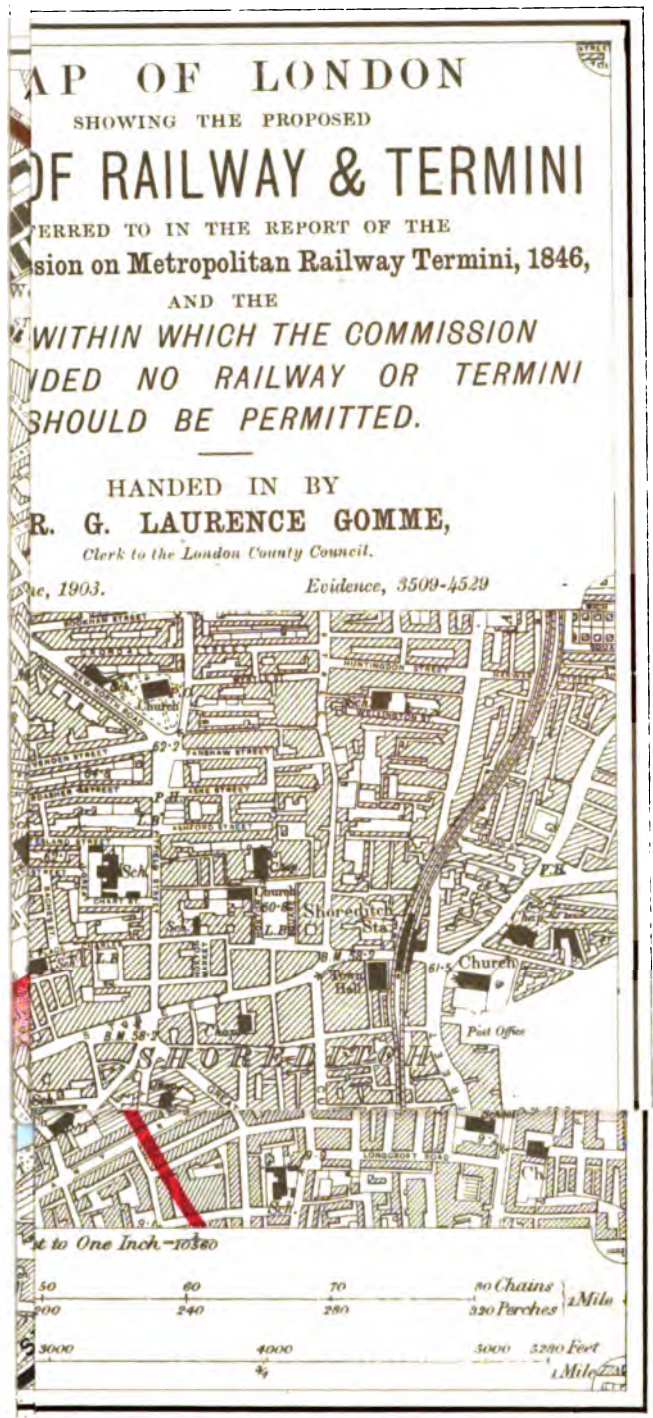


Plate III.
Limits for Railways
& Termini, 1846.
Mr. G. L. Gomme.
12th June, 1903.
Evidence, 3509-4529.
Appendix No. 5.

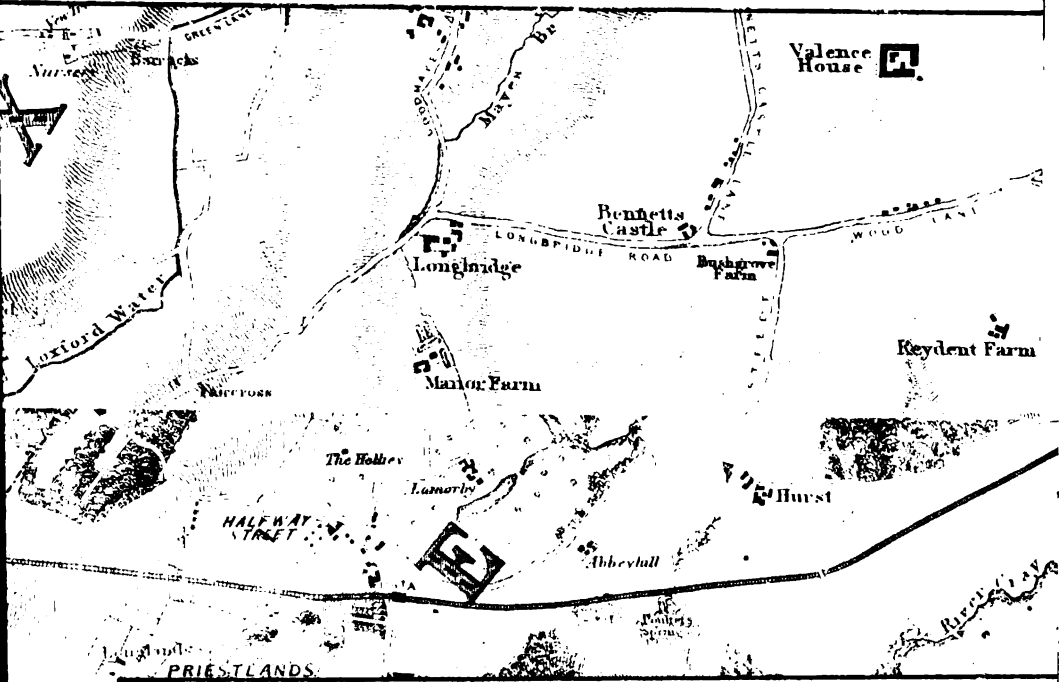
PRINTED AT THE ORDNANCE SURVEY OFFICE, SOUTHAMPTON, 1905.



**PLAN OF
LONDON
IN 1903**
SHOWING
METROPOLITAN & COUNTY IMPROVEMENTS

HANDED IN BY
Mr. GEORGE LAURENCE GOMME,
Clerk to the London County Council.
19th June, 1903. *Evidence 3509—4529.*

Plate IV.
*London
Improvements.
Mr. G. L. Gomme.
18th & 19th June, 1903.
Evidence 3509—4529.
Appendix No. 5.*



REFERENCE.

METROPOLITAN & COUNTY IMPROVEMENTS.

The Street Improvements carried out by or undertaken with the Co-operation of the Metropolitan Board of Works (1855-1889) are shown in Blue, thus —

The Six Improvements commenced by the Metropolitan Board of Works and completed by the London County Council are shown in Orange, thus . . .

The Street Improvements carried out or in course of execution by the London County Council (1889-1904) are shown in Red, thus . . .

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TRAFFIC.

Plate V.

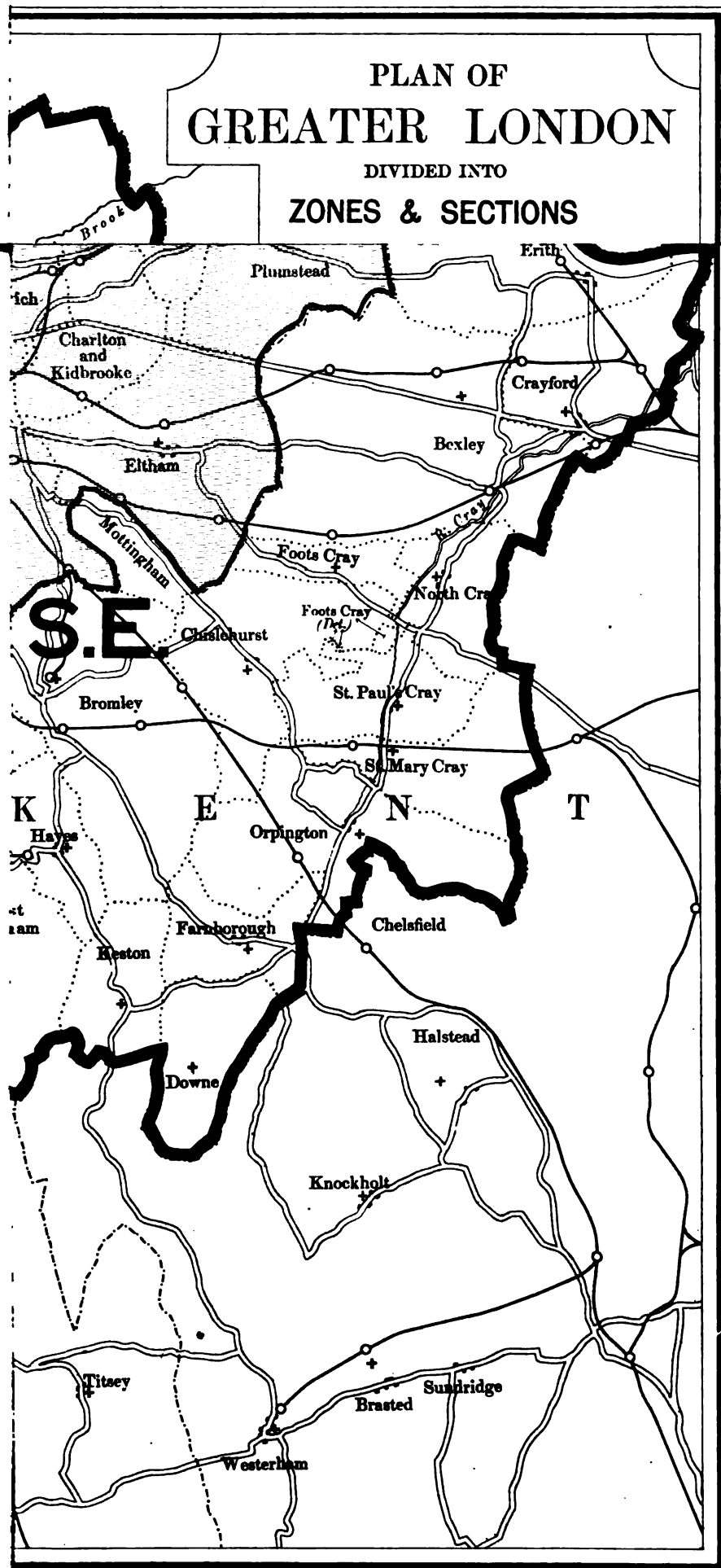


Plate V.
Zones & Sections
Mr. E. Harper
19th. June 1903
Evidence 4530-5268
Appendix No. 6
Tables Nos. 2, 3, 6,
7, 8.

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DIAGRAM SHOWING DEVELOPMENT OF INTERNAL PASSENGER TRAFFIC. 1867-1902. INCREASE OF POPULATION AND OF JOURNEYS PER HEAD OF POPULATION.

Handed in by

MR EDGAR HARPER.

*Statistical Officer, London County Council.
19th June 1903. Evidence 4530-5268.*

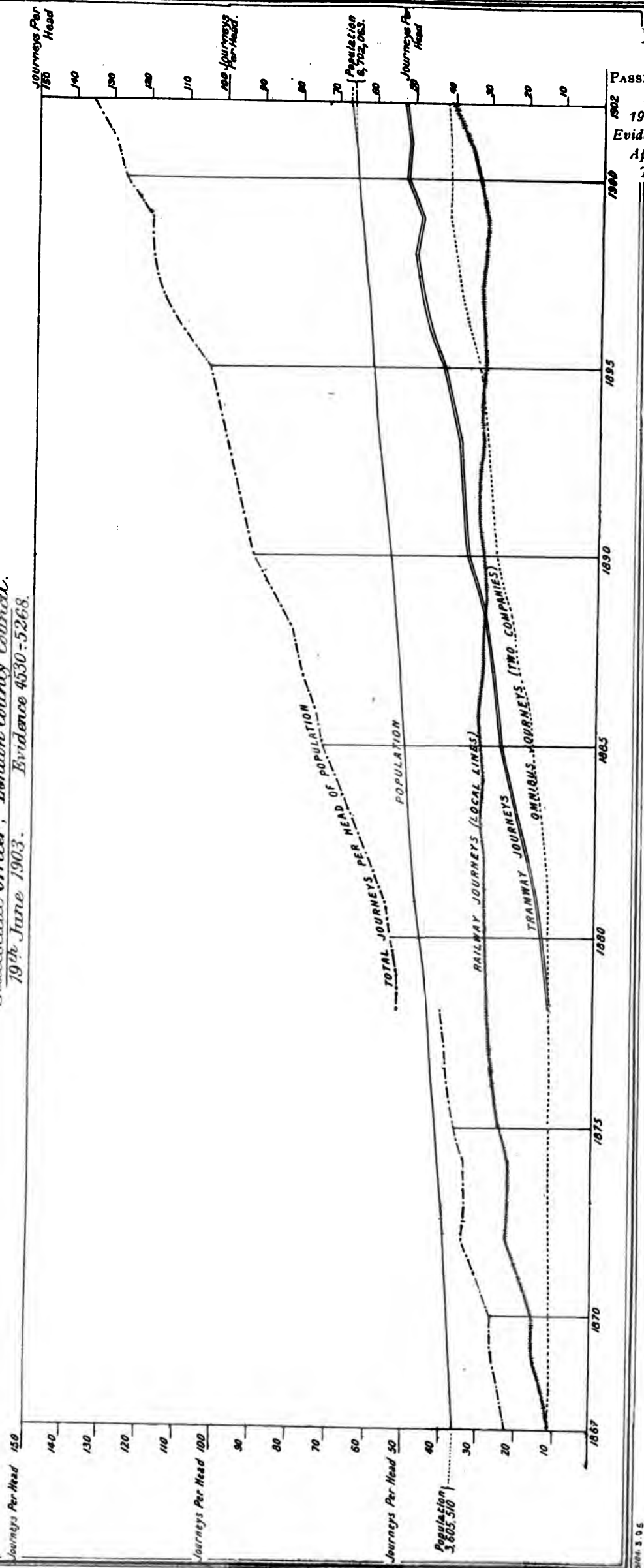


Plate VI.

DIAGRAM.
PASSENGER TRAFFIC.
Mr. Harper.
19th June, 1903.
Evidence 4530-5268.
Appendix No. 6.
Table No. 5.

TRAFFIC.

Plate VII.

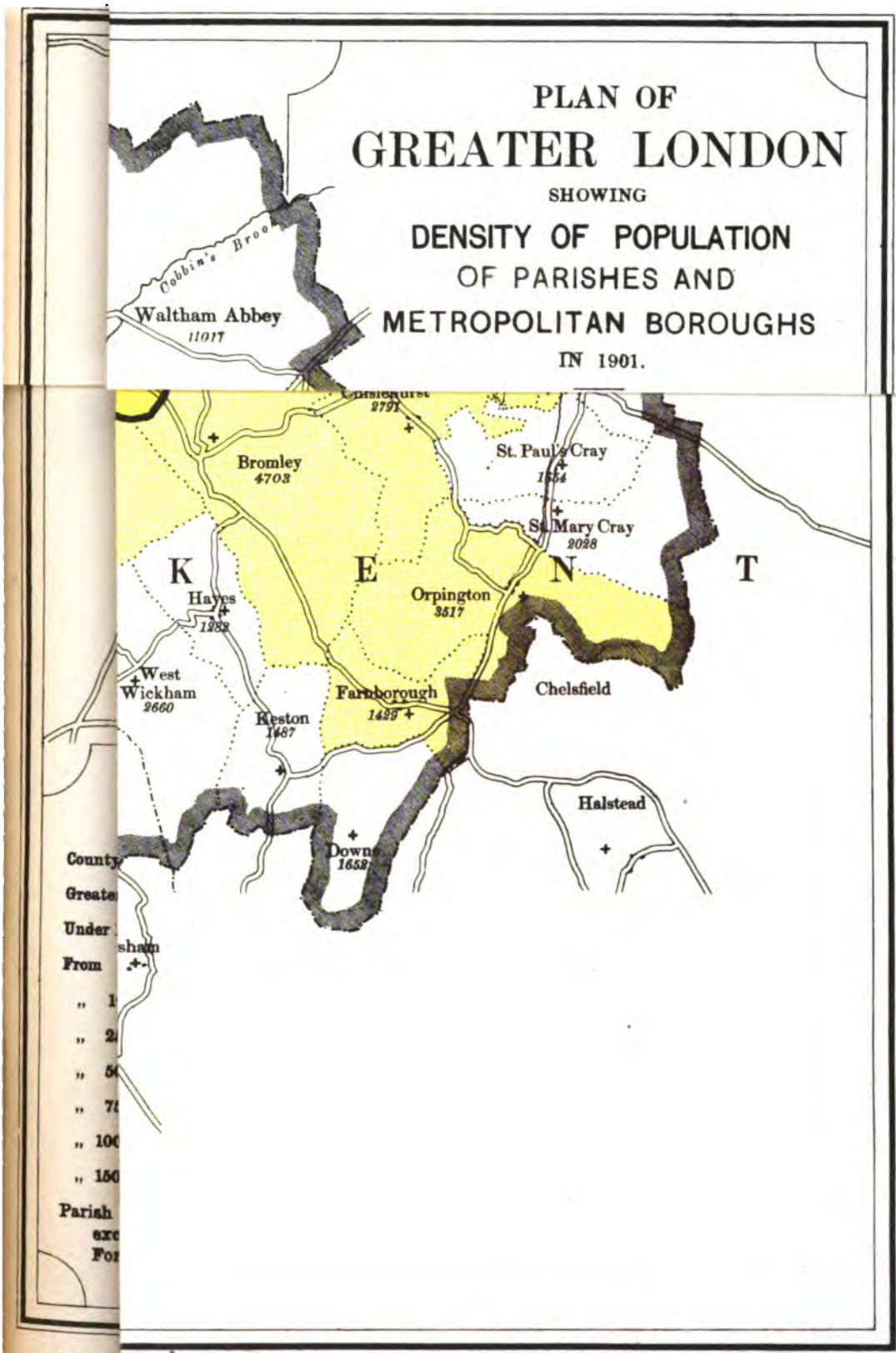
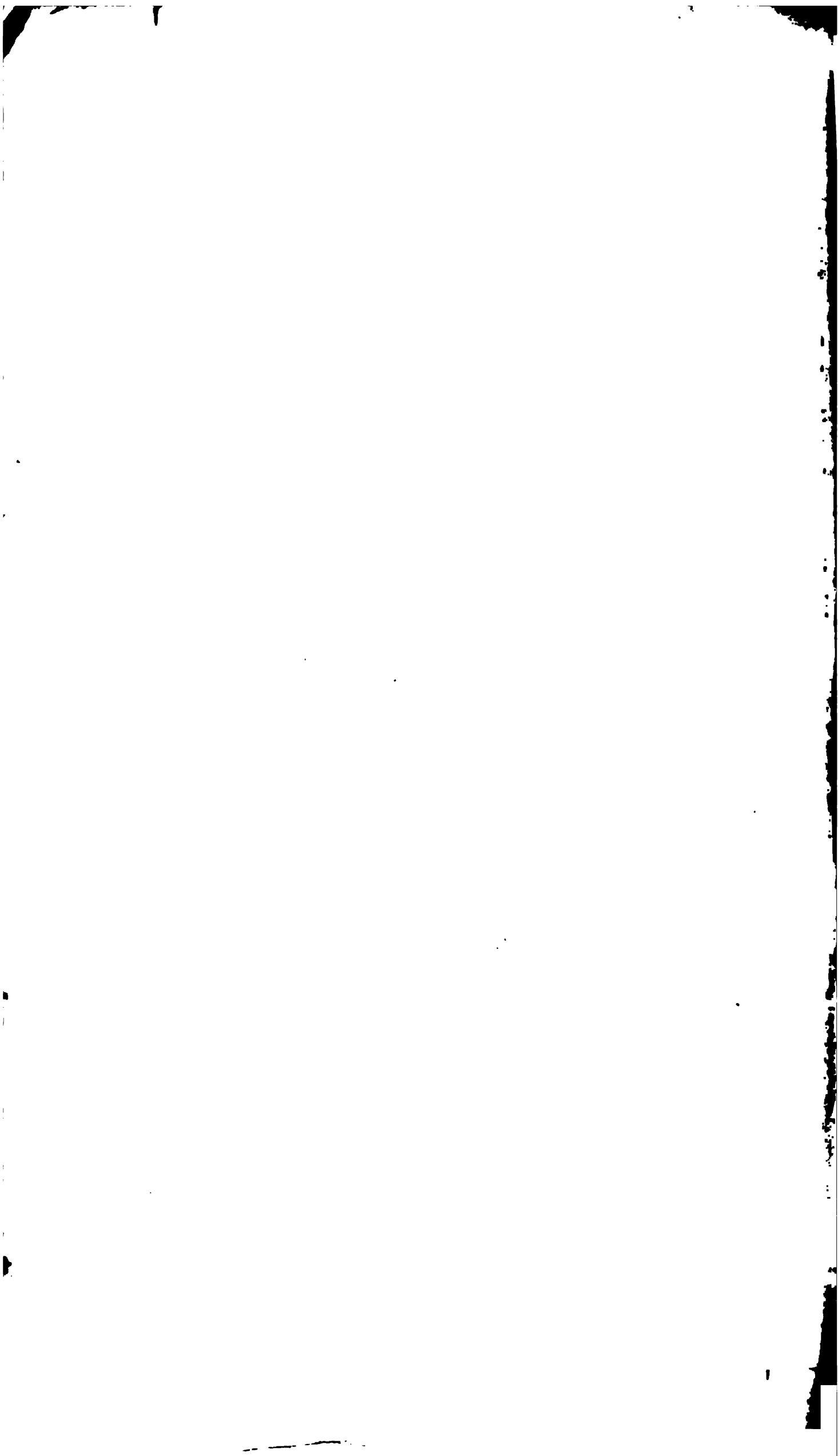


Plate VII.
Density of Population
Mr. E. Harper
26th. June 1903
Evidence 4530-5268
Appendix No. 6.
Tables Nos. 7 & 8.

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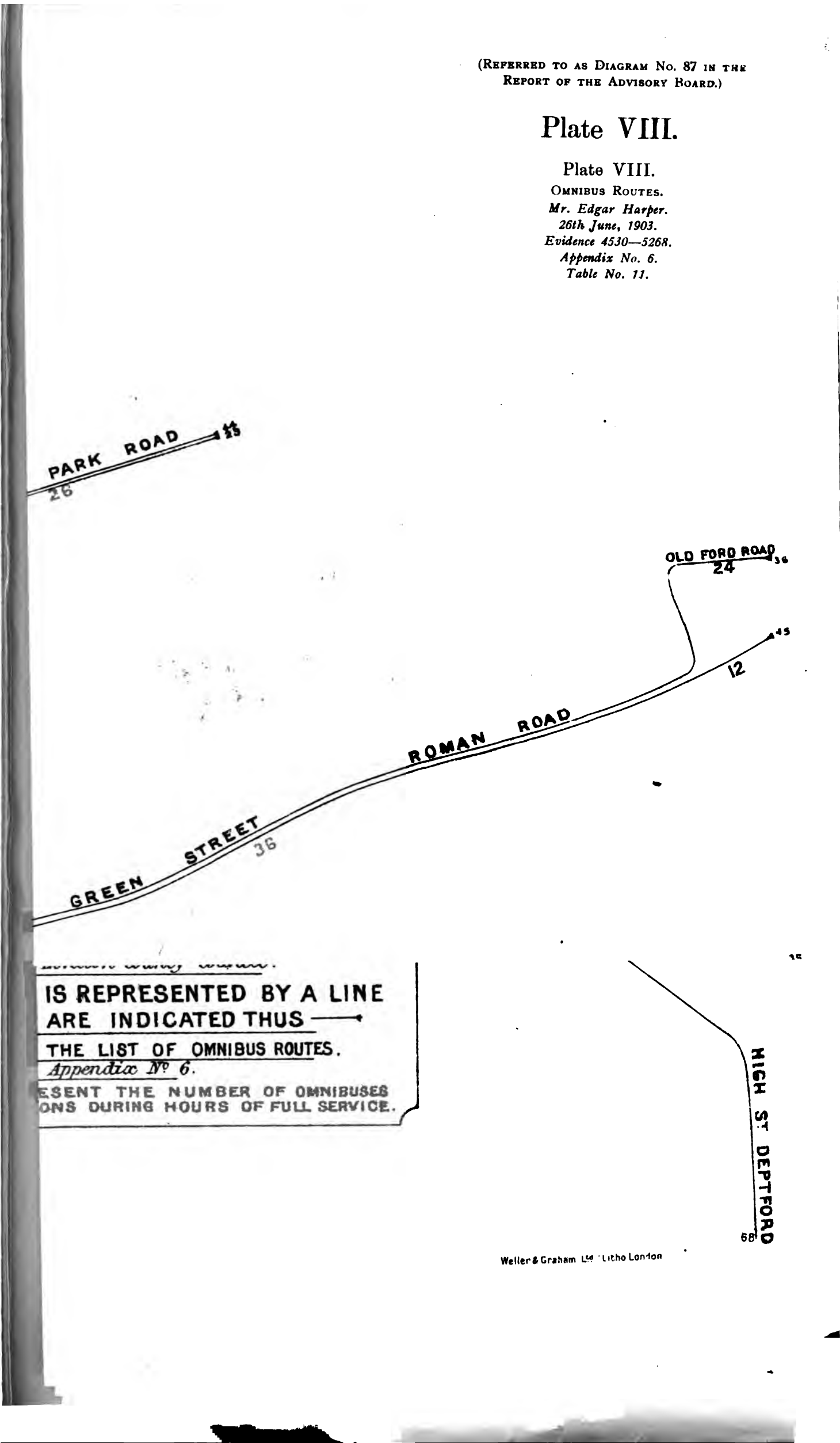
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(REFERRED TO AS DIAGRAM NO. 87 IN THE
REPORT OF THE ADVISORY BOARD.)

Plate VIII.

Plate VIII.
OMNIBUS ROUTES.
Mr. Edgar Harper.
26th June, 1903.
Evidence 4530—5268.
Appendix No. 6.
Table No. 11.



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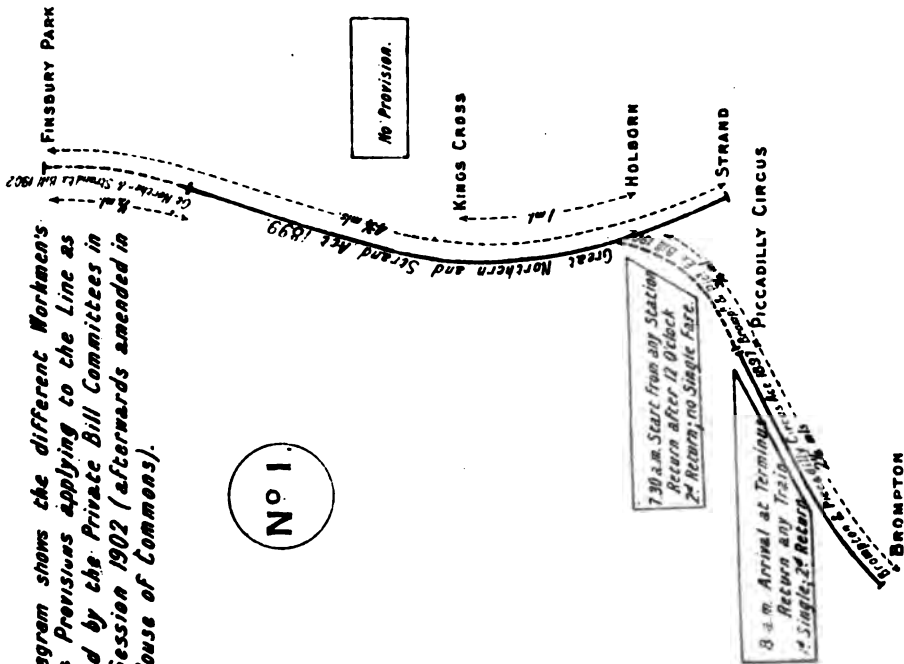
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LINE FROM BROMPTON TO FINSBURY PARK
AUTHORISED BY THE BROMPTON & PICCADILLY
CIRCUS ACTS 1897 & 1902 & THE GREAT NOR
THERN & STRAND ACTS 1899 & 1902.

The diagram shows the different Workmen's
Trains Provisions applying to the Line as
passed by the Private Bill Committees in
the Session 1902 (afterwards amended in
the House of Commons).

Nº 1.



Handed in by
MR. EDGAR HARPER.
Statistical Officer, London County Council.
3rd July 1903 Evidence 4530-5268.

CHARING CROSS, EUSTON & HAMPSTEAD;
EDGWARE & HAMPSTEAD & (PROPOSED)
WATFORD & EDGWARE RAILWAYS.
CONTINUOUS LINE FROM CHARING CROSS TO WATFORD
17½ MILES.

The Continuous Lines Indicate Existing Provisions
as to Workmen's Trains applying to the Authorised
Sections of the Line.
The Broken Line Indicates the proposed Provis-
ions for the proposed section.

Nº 2.

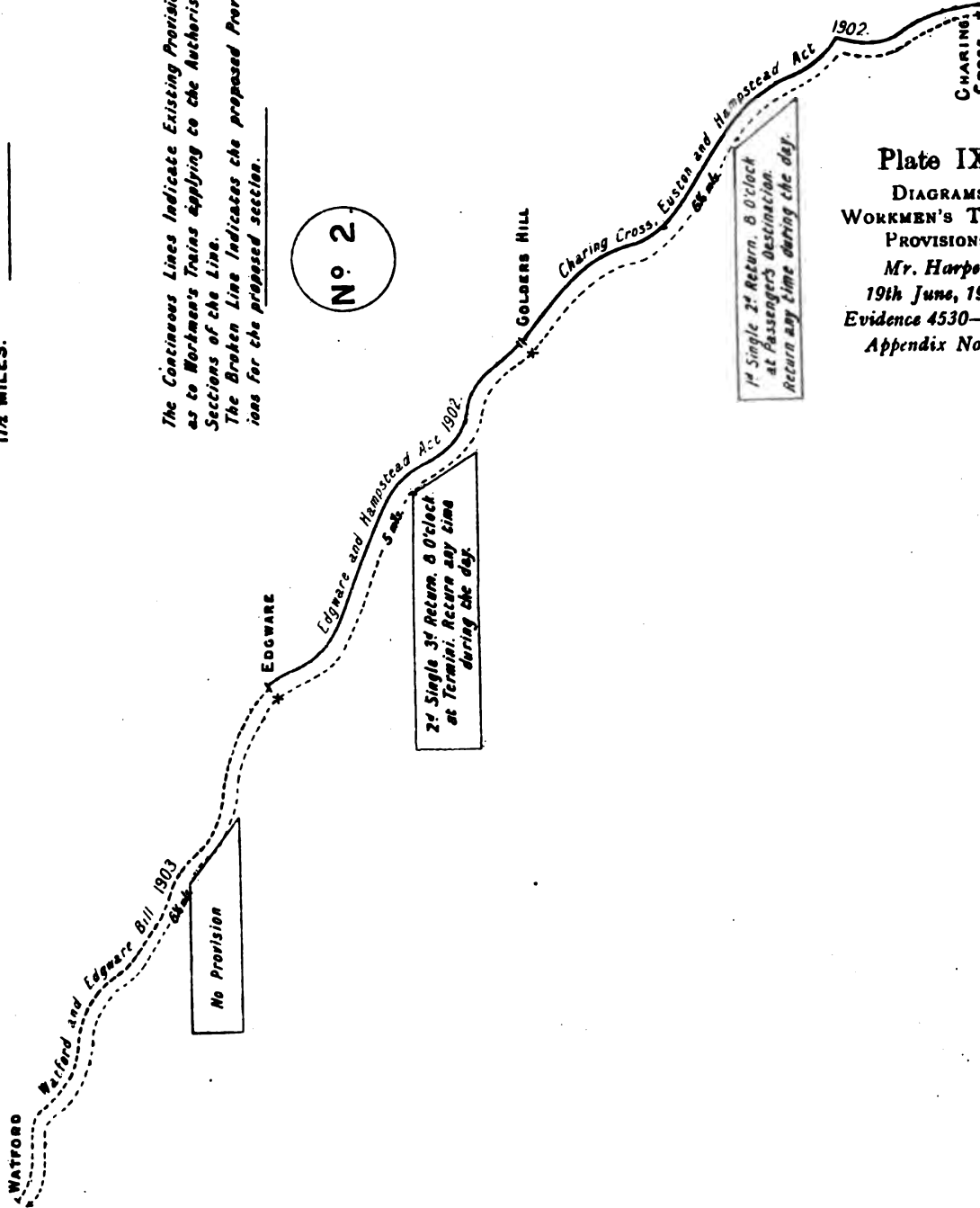
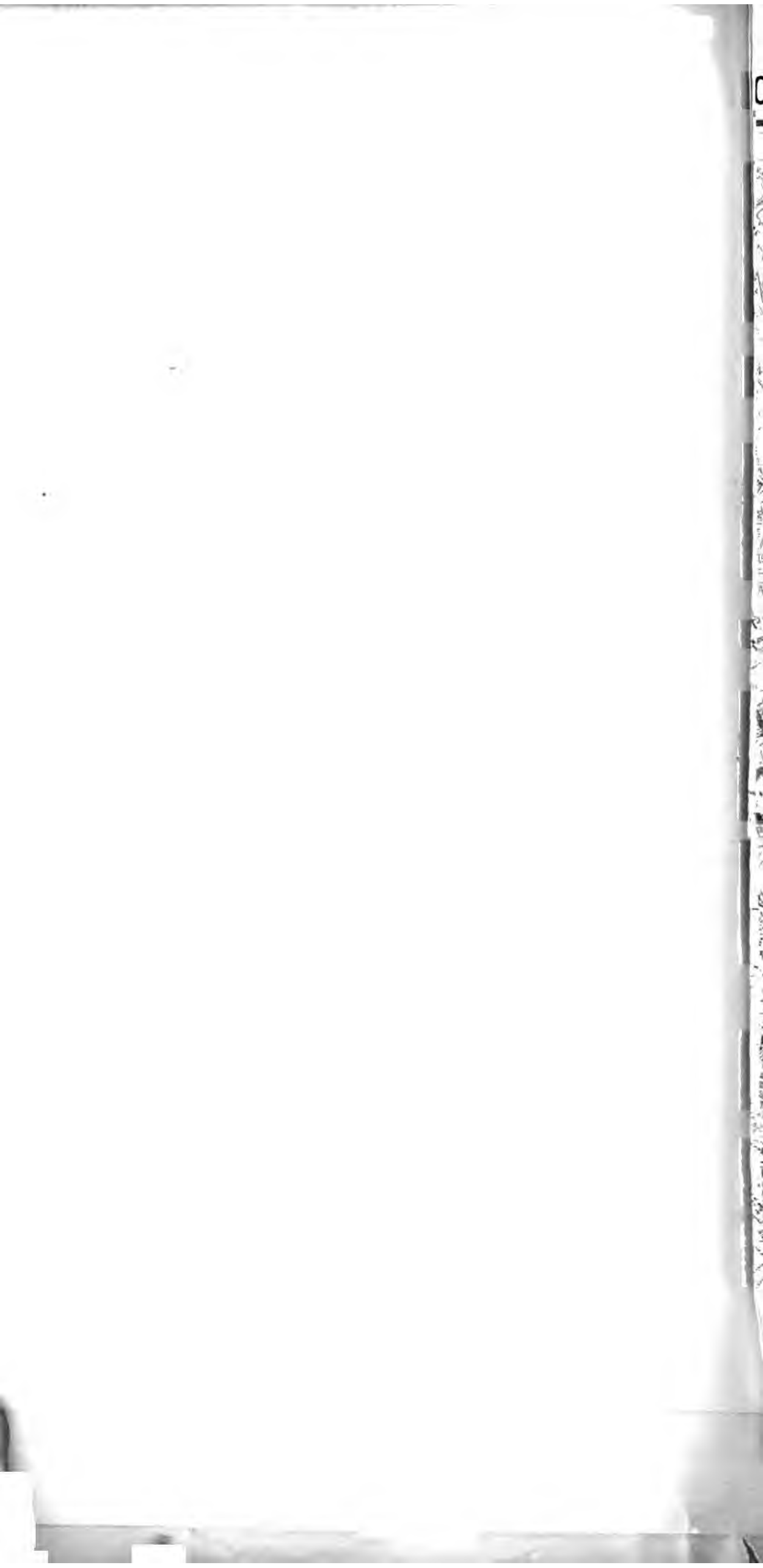


Plate IX
DIAGRAM:
WORKMEN'S T
PROVISION:
Mr. Harper
19th June, 1903
Evidence 4530-
Appendix No





ON TRAF

Plate X.

PLAN OF LONDON

SHOWING

TRAMWAYS IN LONDON IN 1896
THE LONDON COUNTY COUNCIL
BEGAN TO PURCHASE.

MAP A.

HANDED IN BY

MR. J. WILLIAMS BENN,

of the Highways Committee, London County Council.

EVIDENCE 5269—5777.

Plate X.

Tramways (MAP A).

Mr. J. W. Benn.

3rd & 10th July, 1903.

Evidence 5269--5777.

Appendix No. 7.

REFERENCE.

NORTH SIDE.

Metropolitan Co. Lines shown thus ———

Street Tramways Co. „ ———

United „ ———

Road Tramway, and) ———

te Cable Line „ ———

SOUTH SIDE.

South London Co. Lines shown thus ———

London Southern Co. „ ———

London Tramways Co. „ ———

London, Deptford, & Greenwich „ ———

S. E. Metropolitan „ ———

London, Camberwell, & Dulwich „ ———

Woolwich, & S.E. London „ ●●●

STANFORD'S GEOGRAPHICAL ESTABLISHMENT, LONDON

21

LONDON

Plate XI.

PLAN OF LONDON SHOWING THE TRAMWAYS IN 1903.

MAP B.

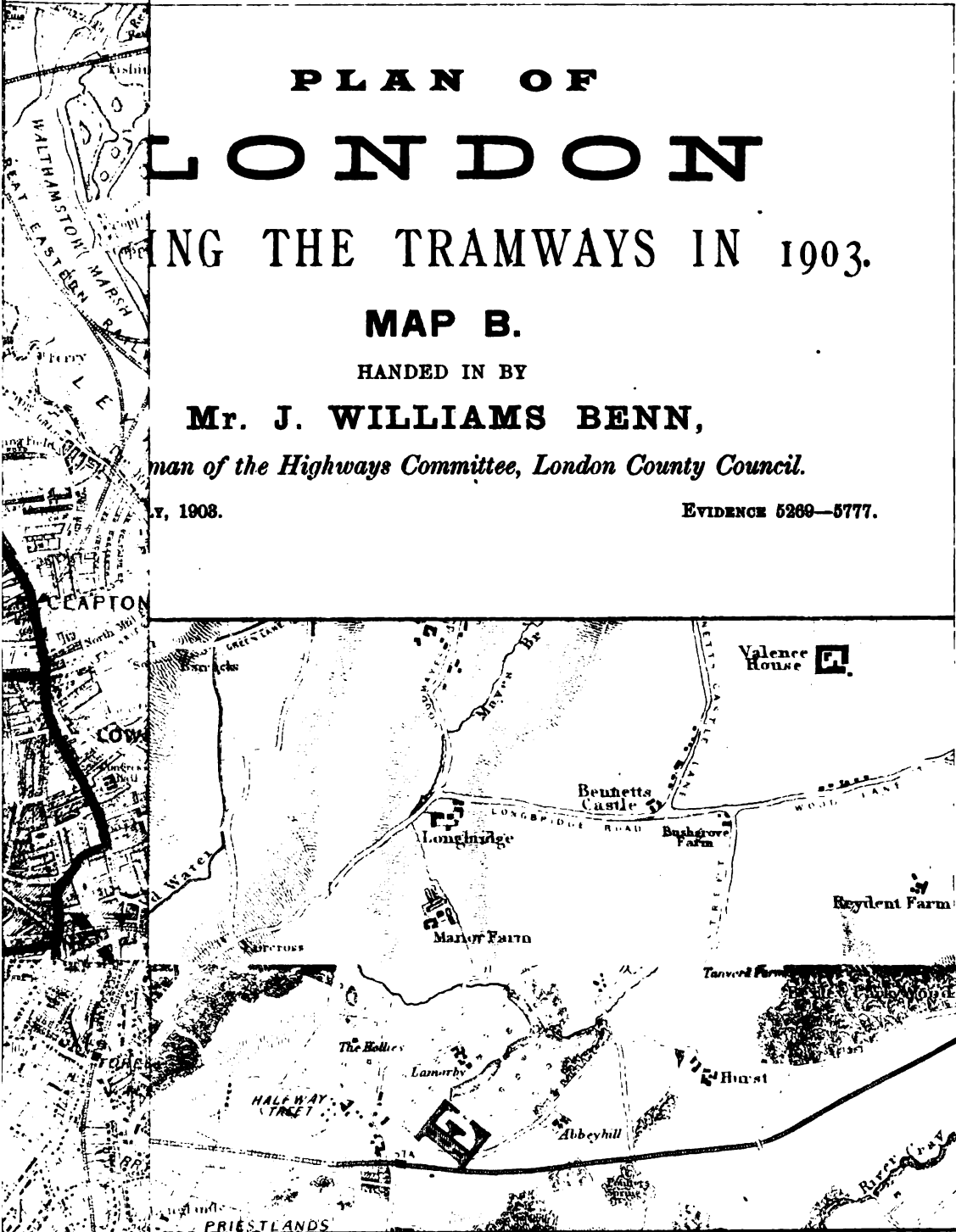
HANDED IN BY

Mr. J. WILLIAMS BENN,

Chairman of the Highways Committee, London County Council.

July, 1903.

EVIDENCE 5289—5777.



REFERENCE

- The existing L.C.C. Tramways leased to the North Metropolitan Co. on a lease expiring in 1910 are shown thus
- The L.C.C. Tramways worked by the Council are shown thus
- Lines sanctioned on the application of the L.C.C. by their Tramways Acts of 1900, 1901 and 1902 are shown thus
- Lines purchasable by the L.C.C. in 1903 are shown thus
- Lines which the L.C.C. have given notice to purchase and are purchasing are shown thus
- The other lines are purchasable by the L.C.C. as follows:
- Harrow Road (1907) shown thus
- London United (1909) ,, ...
- Part of the London, Camberwell and Dulwich (1904) shown thus

Plate XI.

Tramways (MAP B).

Mr. J. W. Benn.

3rd & 10th July, 1903.

Evidence 5289—5777.

Appendix No. 7.

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TRAFFIC.

Plate XII.



PLAN OF LONDON

SHOWING TRAMWAYS AND TRAMWAYS
THE LONDON COUNTY COUNCIL
1903 AND NOT SANCTIONED.

MAP C.

HANDED IN BY

J. WILLIAMS BENN,

Highways Committee, London County Council.

EVIDENCE 5269—5777.

REFERENCE.

Lines show existing Tramways and those sanctioned. ———

Lines show lines proposed by Council. ———

STANFORD'S GEOGRAPHICAL ESTABLISHMENT, LONDON

Plate XII.
Tramways (MAP C).
Mr. J. W. Benn.
3rd & 10th July, 1903.
Evidence 5269—5777.
Appendix No. 7.

CROSS SECTION OF THE STRAND.
SHOWING GAS, WATER AND HYDRAULIC MAINS.

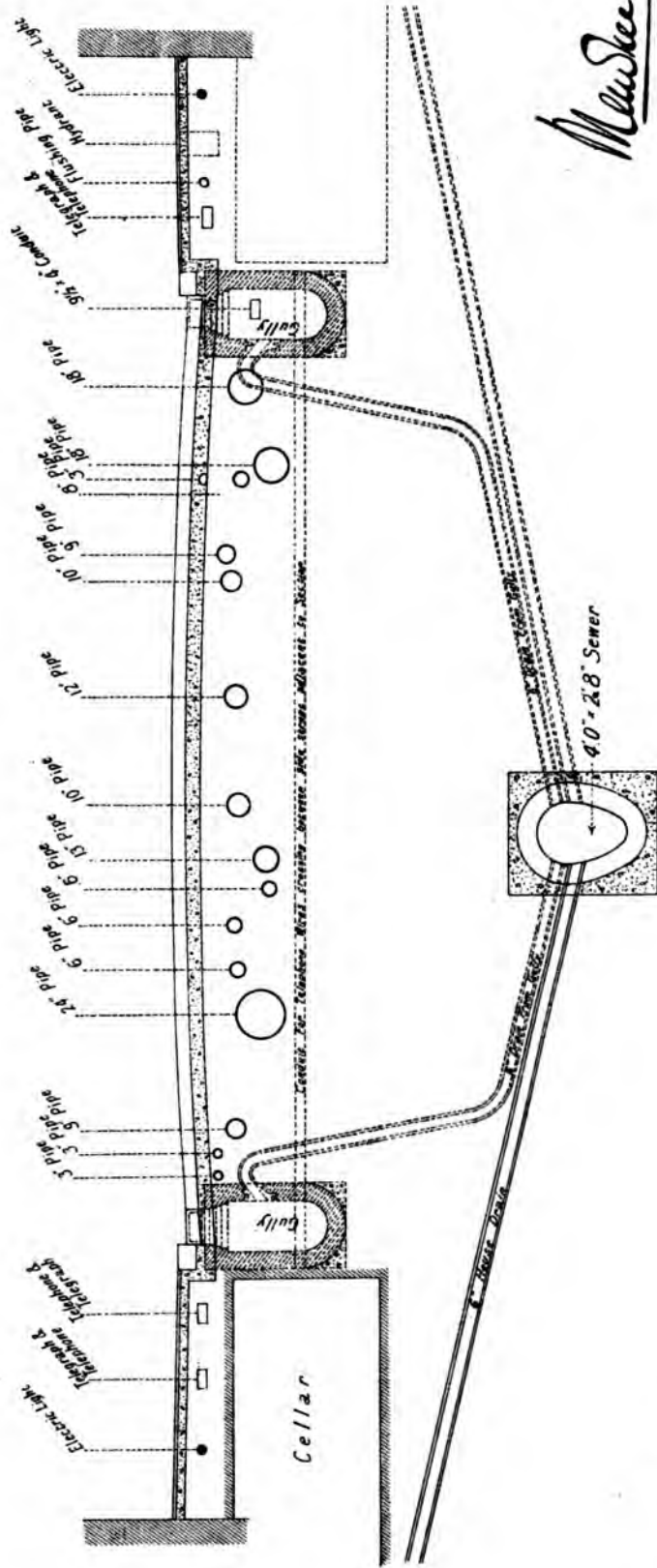
Handed in by

MR. MAURICE FITZMAURICE C.M.G. M. Inst. C.E.

Chief Engineer, London County Council.

17th July 1903

Evidence 5952-6556.



Scale 1 Inch = 8 Feet.

Plate XIII.
CROSS SECTION
STRAND.

Mr. M. Fitzmaurice,
C.M.G.
17th July, 1903.
Evidence 5952-6556
Appendix No. 9.

Maurice Fitzmaurice

Chief Engineer, L. C. C.

1. 1. 1.

CROSS SECTION OF PALL MALL.
(ABOUT 20 YARDS WEST OF WEST SIDE OF HAYMARKET.)
SHOWING POSITION OF PIPES.

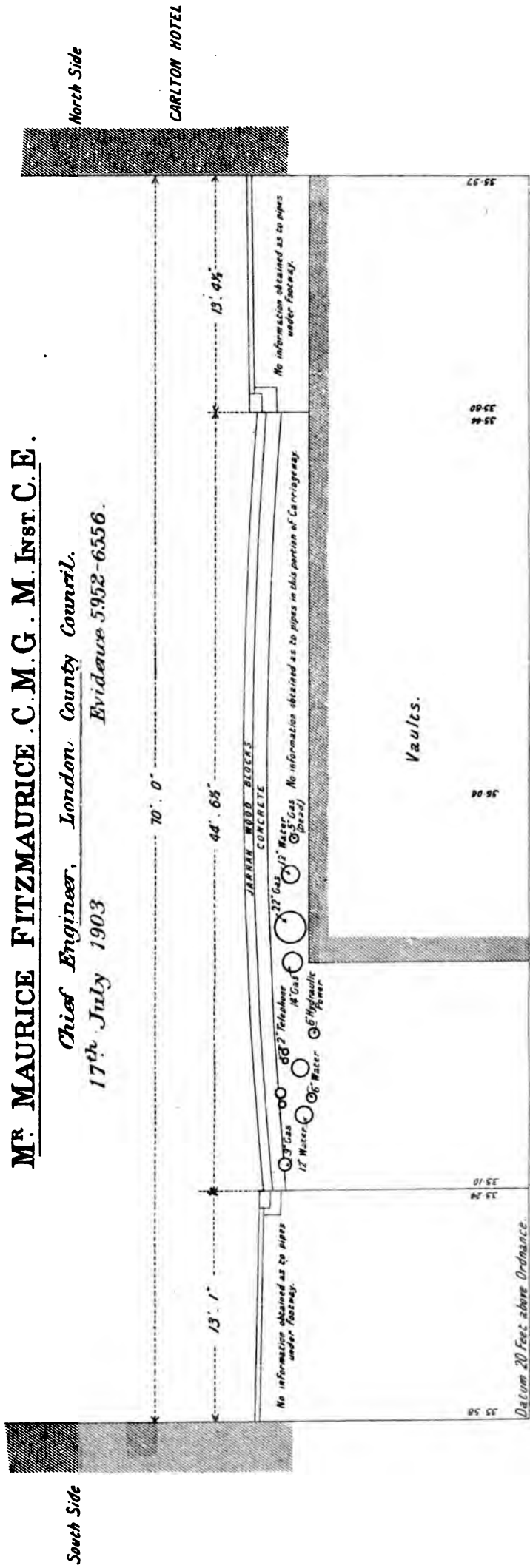
Handed in by

MR. MAURICE FITZMAURICE C.M.G. M. Inst. C.E.

Chief Engineer, London County Council.

17th July 1903

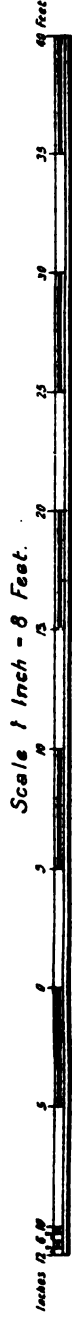
Evidence 5952-6556.



Maurice Fitzmaurice

Chief Engineer, L. C. C.

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Mr. M.
C.
17th J
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CROSS SECTION OF KNIGHTSBRIDGE WIDENING, (ST GEORGE'S PLACE, LOOKING WEST) SHOWING POSITION OF PIPES.

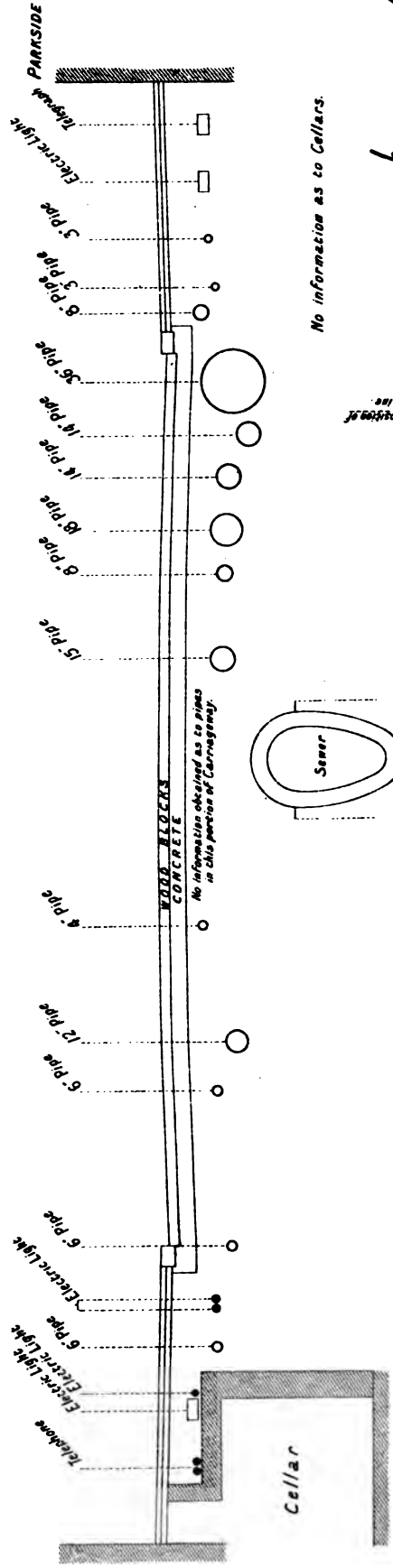
Handed in by

MR. MAURICE FITZMAURICE C.M.G. M. Inst. C.E.

Chief Engineer, London County Council.

17th July 1903

Evidence 5952-6556.



Approximate position of
Main Sewer
Size
7" 11" x 6" 4"
Invert level
22' 6" below roadway.
Approximate Invert Level.

Maurice Fitzmaurice
Chief Engineer, L.C.C.

Plate XV.
CROSS SECTION
KNIGHTSBRIDGE.
Mr. M. Fitzmaurice, C.M.G.
17th July, 1903.
Evidence 5952-6556.
Appendix No. 9.

Weller & Graham, Ltd. Litho. London.

5104, 5, 13

LONDON COUNTY COUNCIL TRAMWAYS RECONSTRUCTION. Plate XVI.

CROSS SECTION AT VAUXHALL CROSS.
SHOWING POSITION OF PIPES.

CROSS SECTION
VAUXHALL CROSS.

Mr. M. Fitzmaurice, C.M.G.

17th July, 1903.

Evidence 5952-6556.

Appendix No. 9.

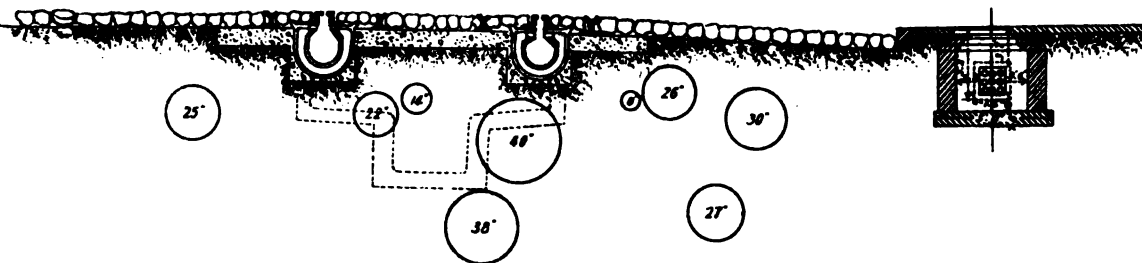
Handed in by.

MR MAURICE FITZMAURICE .C.M.G. M. INST. C. E.

Chief Engineer, London County Council.

17th July 1903

Evidence 5952-6556.



Maurice Fitzmaurice

Chief Engineer, L. C. C.

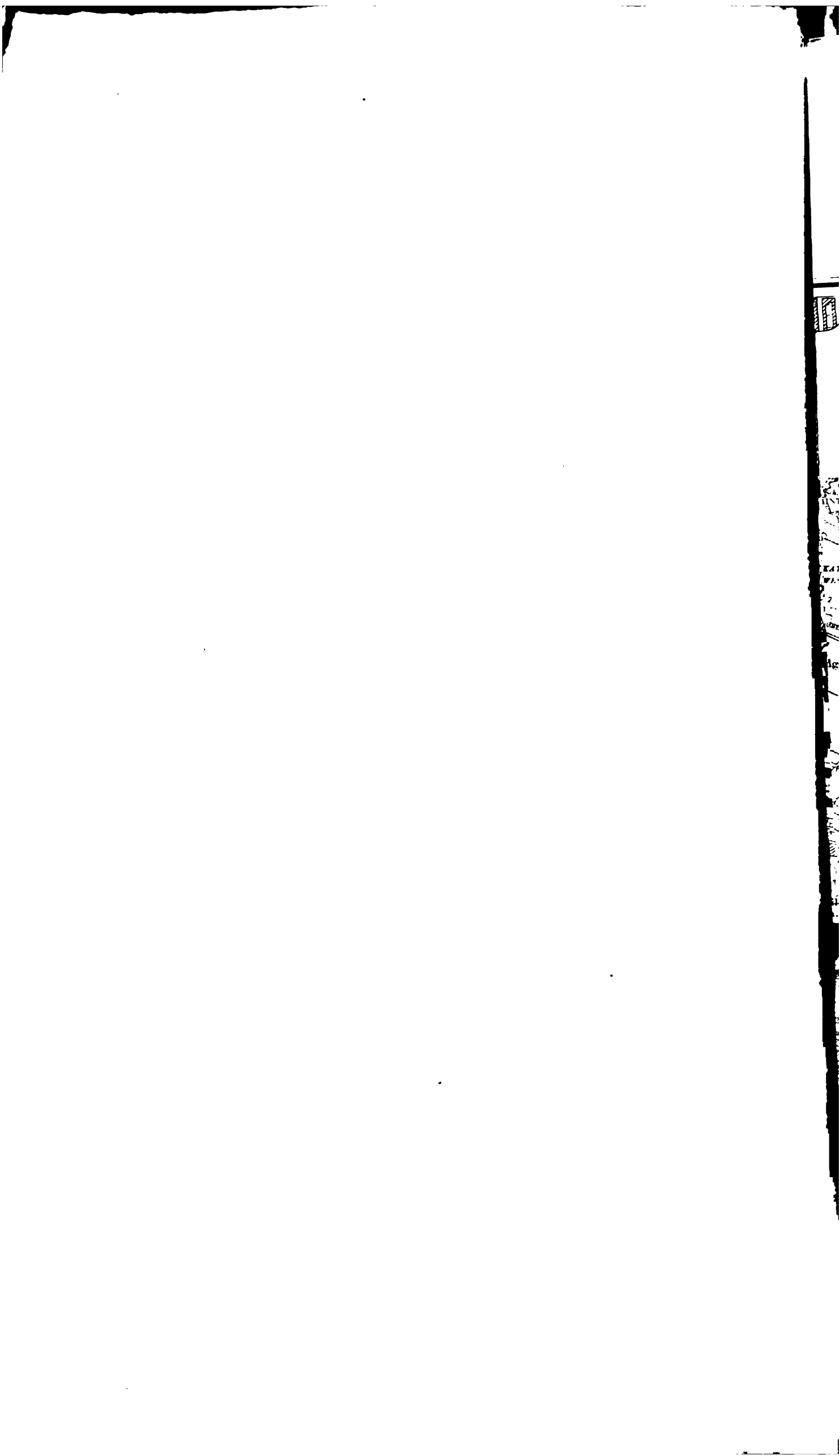


Plate XVII.

PLAN OF
LONDON
SHOWING
PIPE SUBWAYS CONSTRUCTED AND
UNDER CONSTRUCTION.

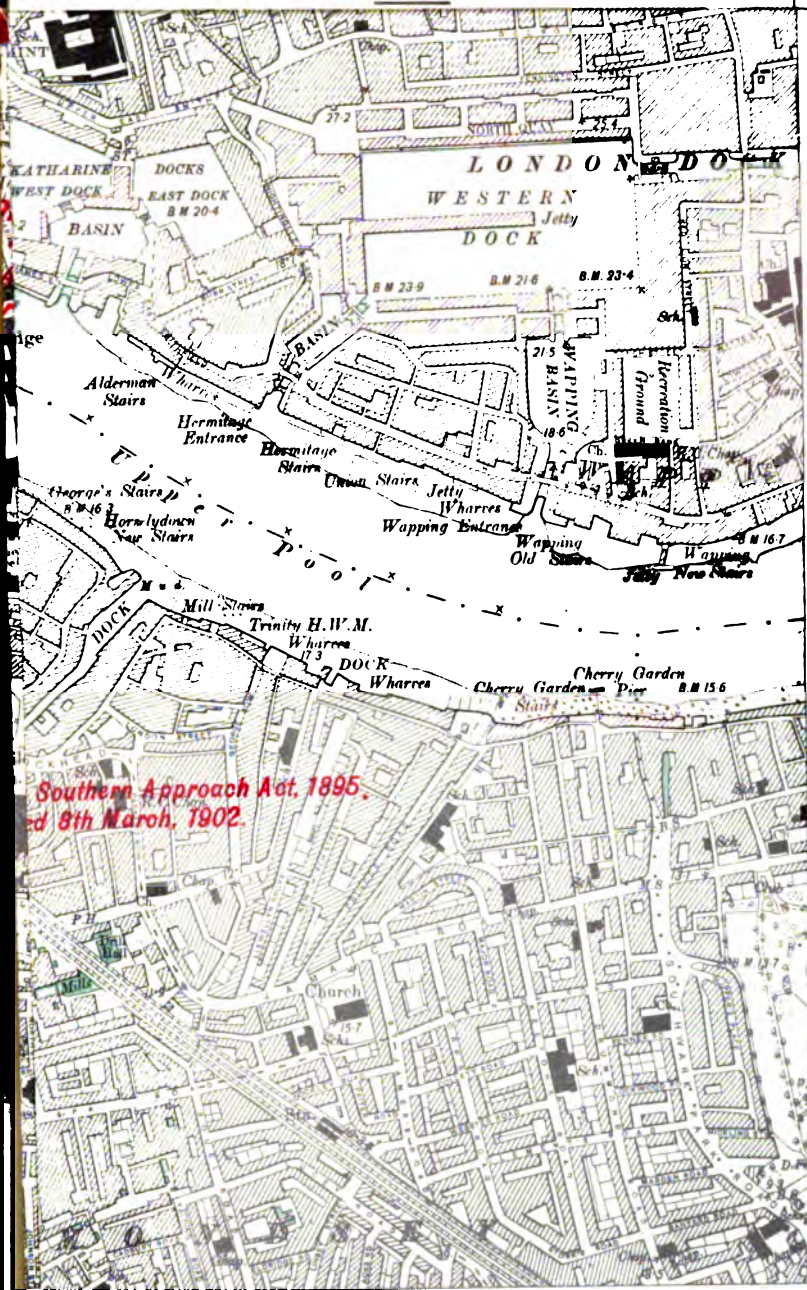


Plate XVII

Pipe Subways.

Mr. M. Fitzmaurice, C.M.G.

17th July, 1903.

Evidence, 5952-6556.

Appendix No. 9

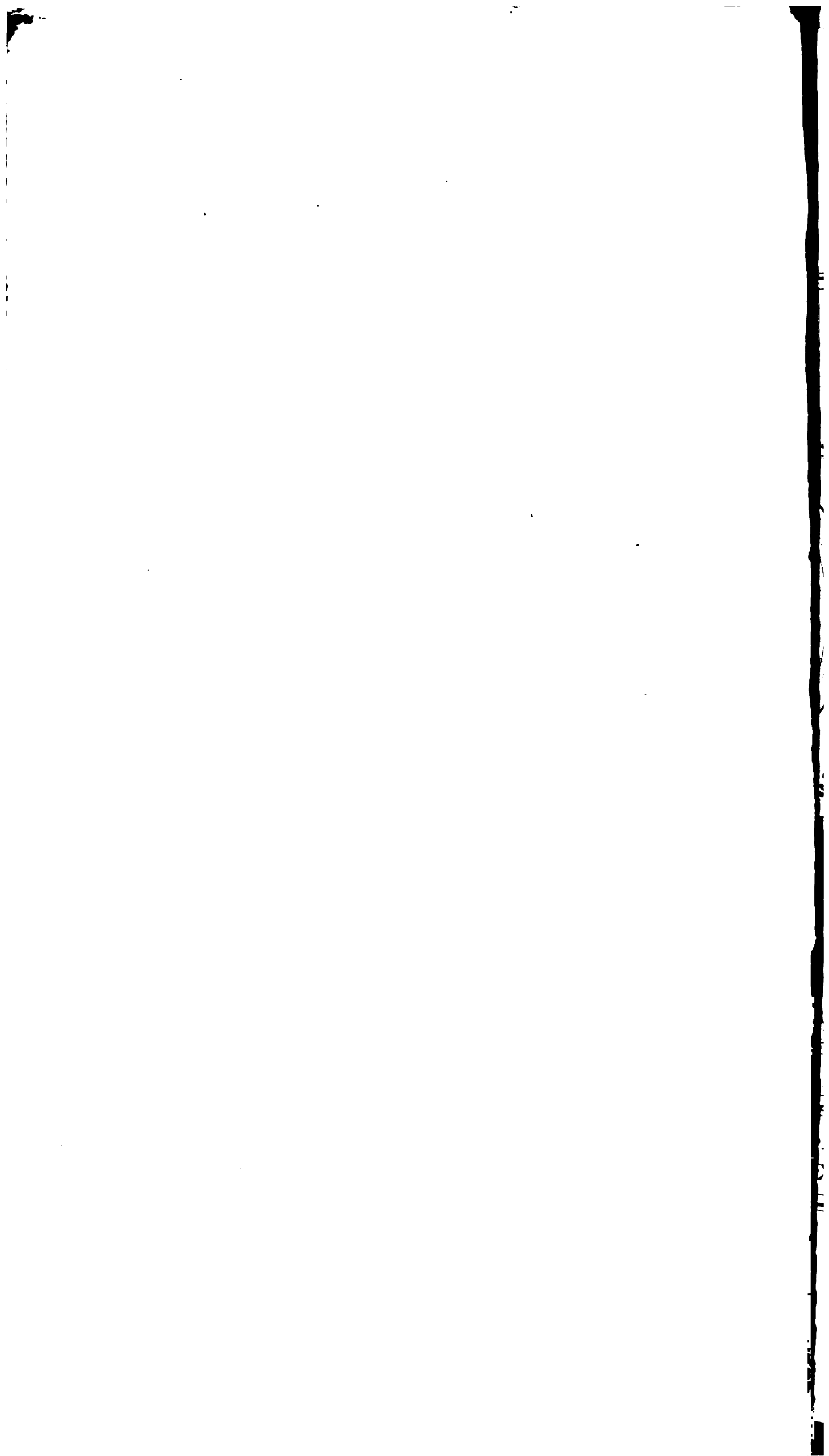


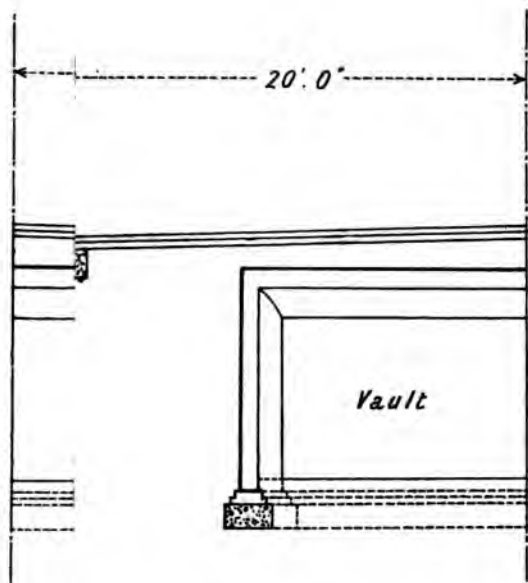
Plate XVIII.



Plate XVIII.
Kingsway.
Mr. Fitzmaurice.
17th July, 1903.
Evidence, 5952-6556.
Appendix No. 9.
Mr. Young.
12th Nov., 1903.
Evidence, 7107-7404.
Appendix No. 12.

Plate XIX.

Plate XIX.
CROSS SECTION OF
KINGSWAY.
Mr. Fitzmaurice, C.M.G.
17th July, 1903.
Evidence 5952—6556.
Appendix No. 9.



Maurice Fitzmaurice

Chief Engineer, L. C. C.

FEET

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Plate XX.

Plate XX.

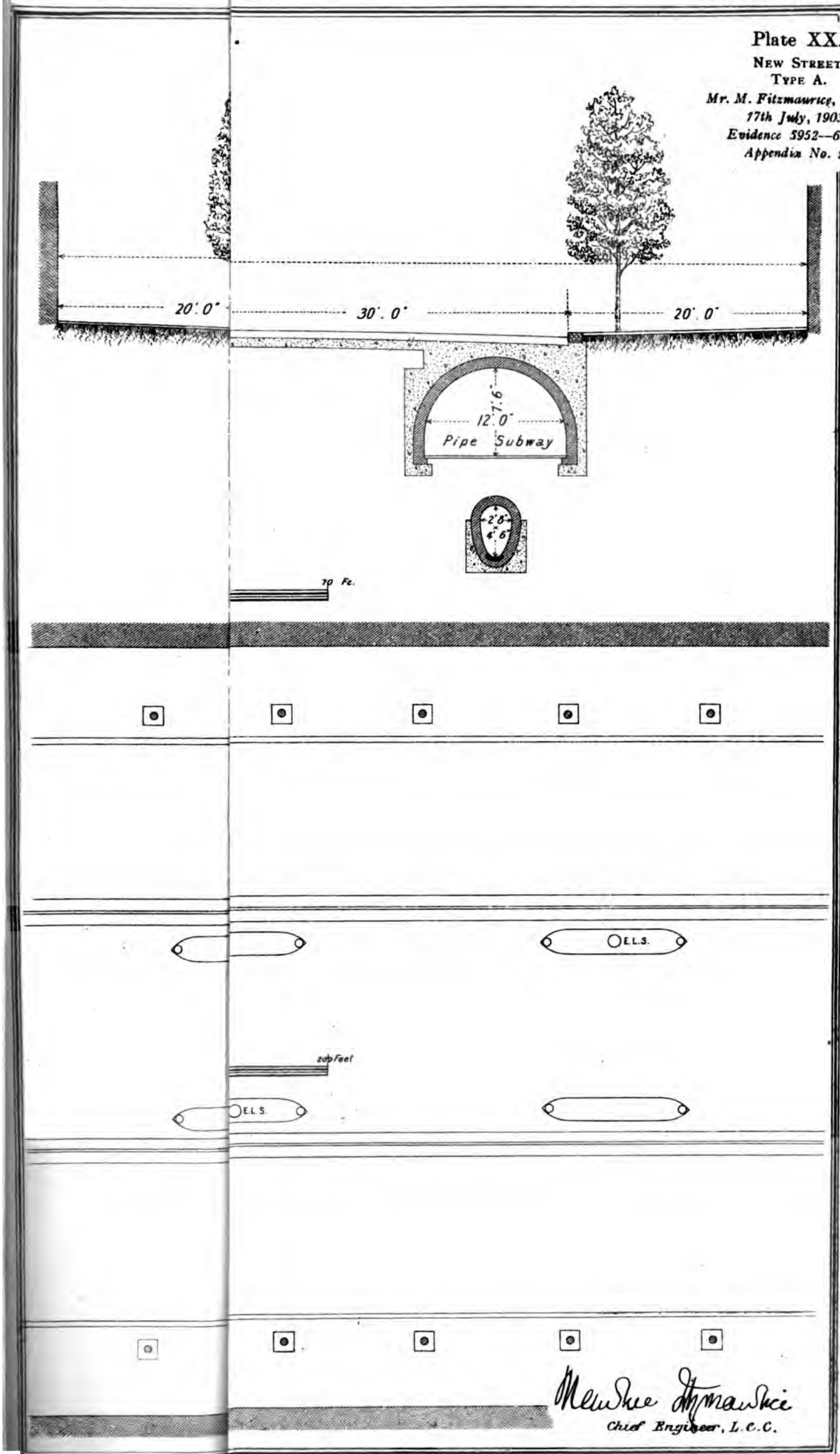
NEW STREET.
TYPE A.

Mr. M. Fitzmaurice, C.M.G.

17th July, 1903.

Evidence 5952-6556.

Appendix No. 9.



M. Fitzmaurice
Chief Engineer, L.C.C.

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Plate XXI.

Plate XXI.

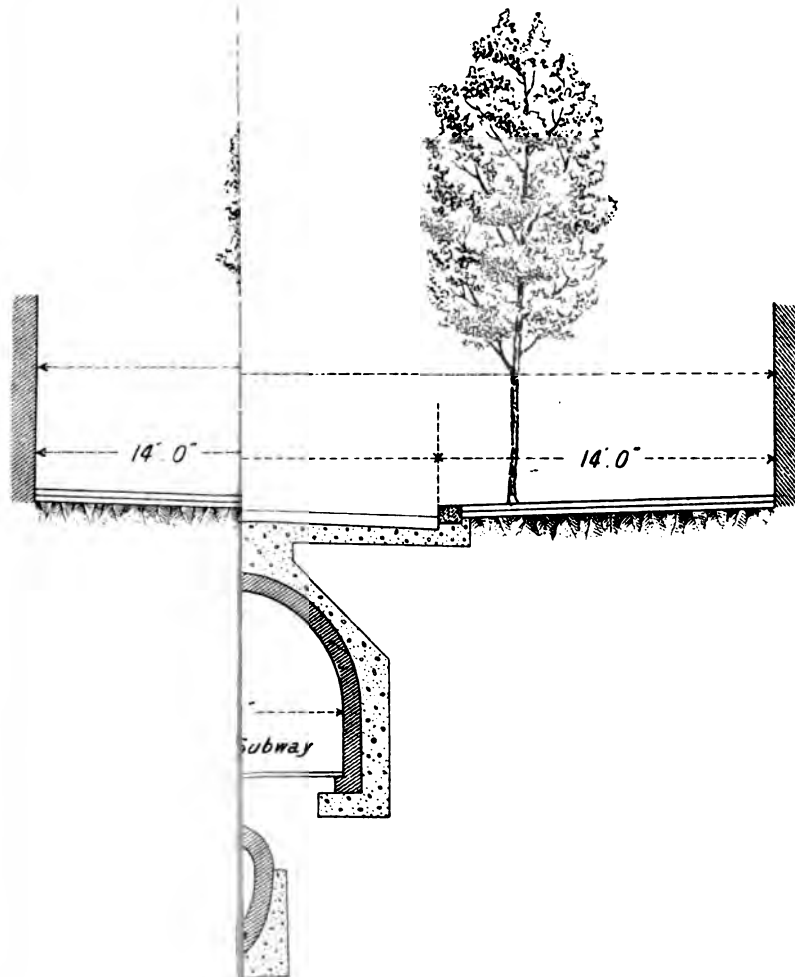
NEW STREET.
TYPE B.

Mr. M. Fitzmaurice, C.M.G.

17th July, 1903.

Evidence 5952—6556.

Appendix No. 9.



Maurice Fitzmaurice

Chief Engineer, L.C.C.

69 Feet.

Plate XXII.

ET.

Plate XXII.

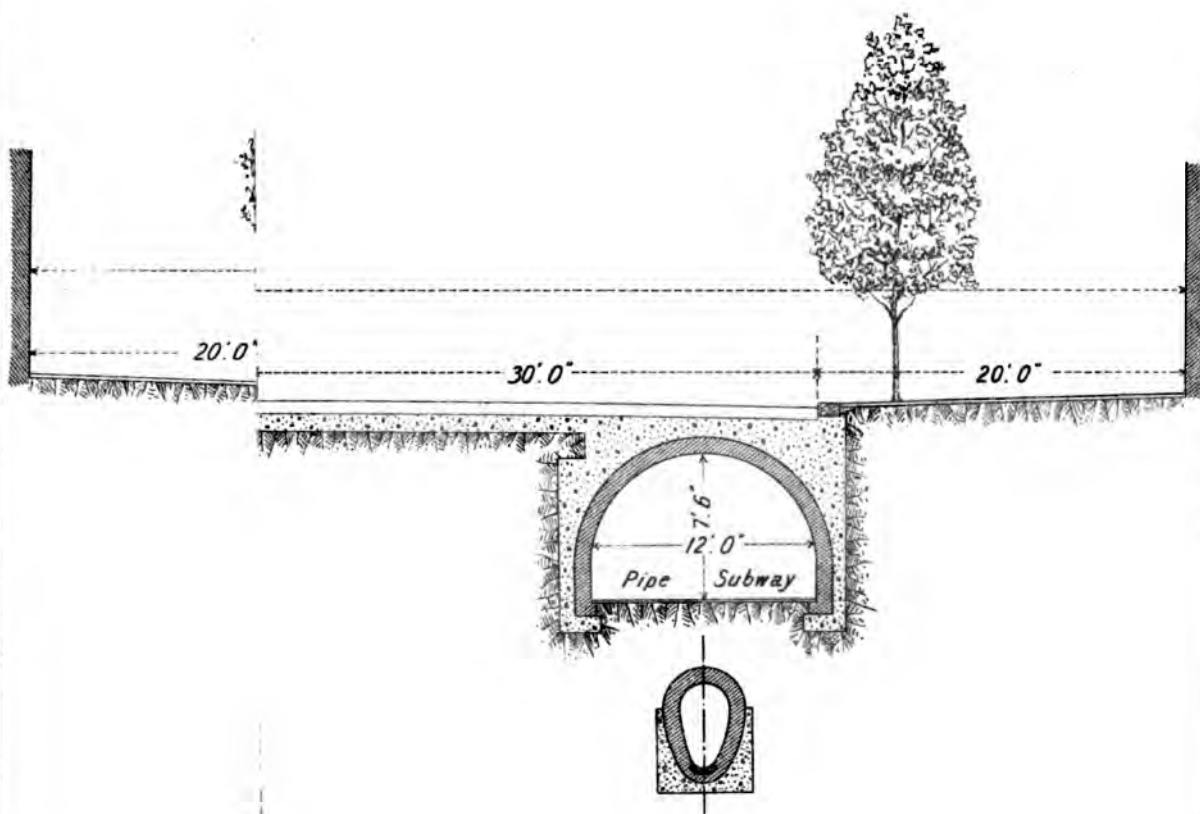
NEW STREET
TYPE C.

Mr. M. Fitzmaurice, C.M.G.

17th July, 1903.

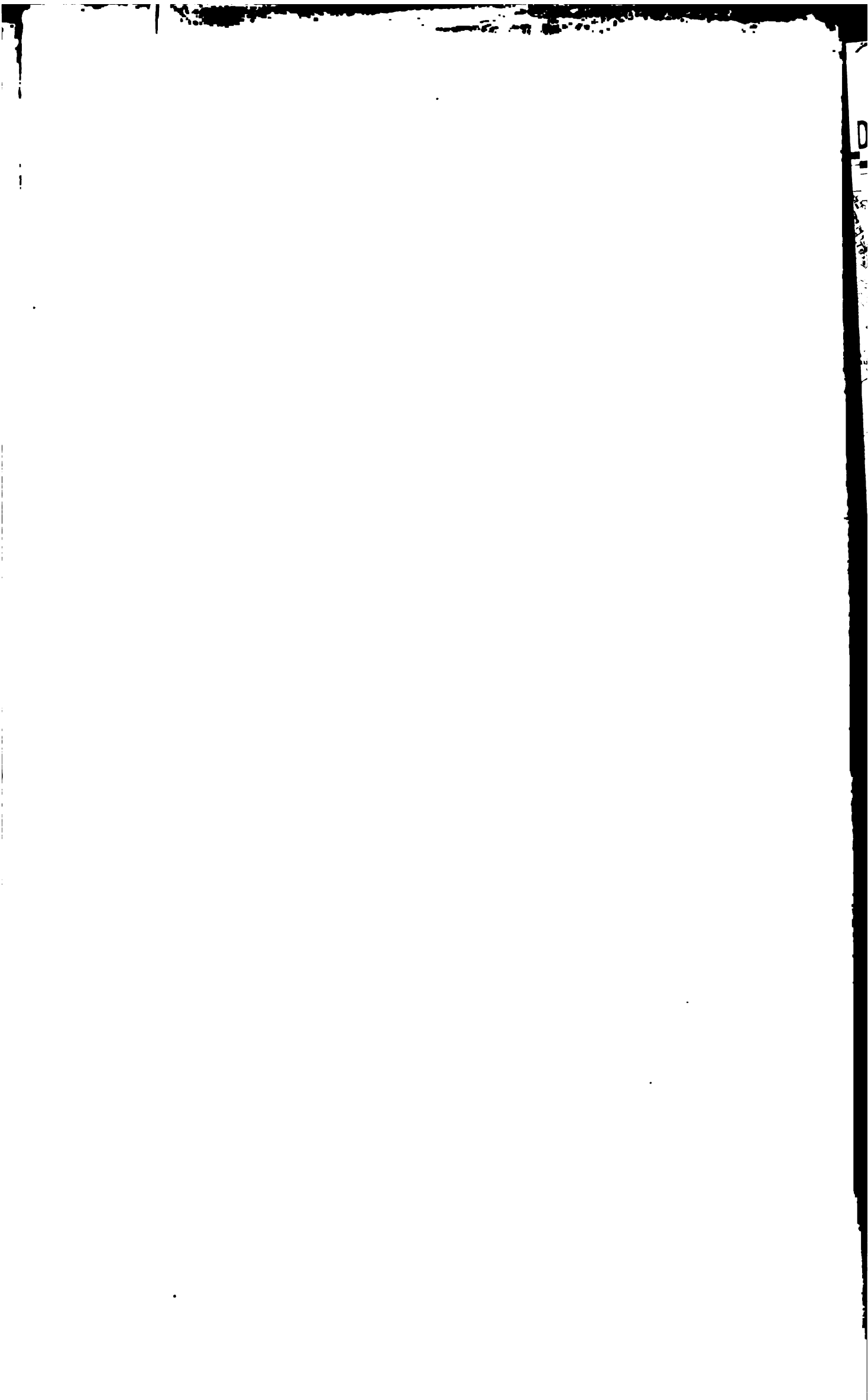
Evidence 5952-6556.

Appendix No. 9.



Maurice Fitzmaurice
Chief Engineer, L. C. C.

70 Feet.



DON

Plate XXIII.

PLAN OF LONDON

SHOWING
WHICH CONGESTION OF
TRAFFIC OCCURS.

HANDED IN BY
RILEY, F.R.I.B.A., M.Inst.C.E.,
Resident Architect, London County Council.

Evidence 6886—7106.

Plate XXIII.

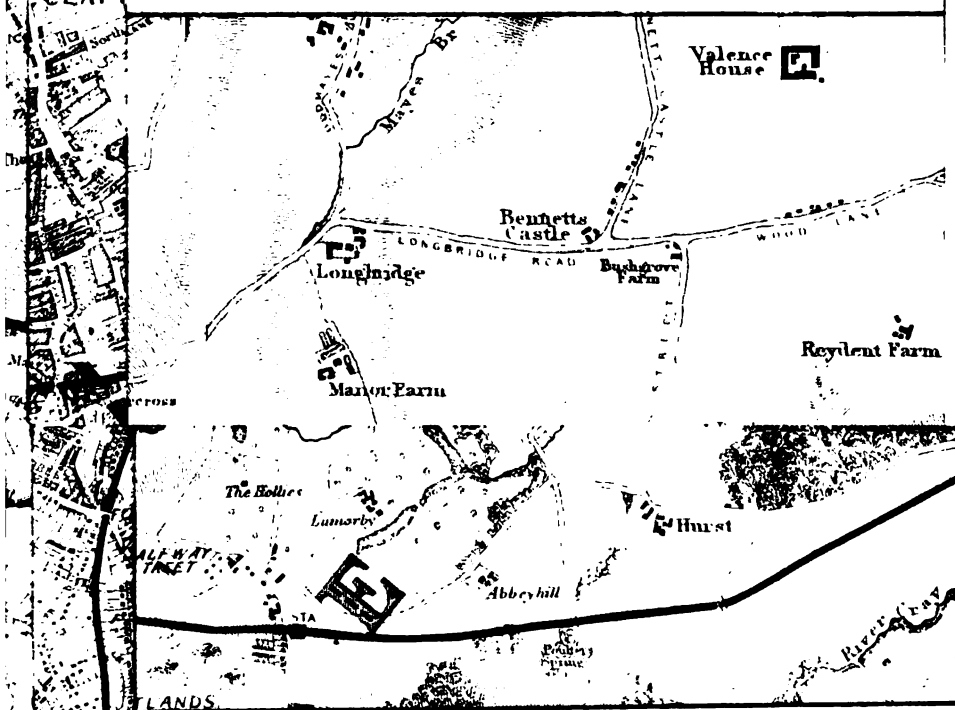
Congested Points.

Mr. W. E. Riley.

6th November, 1903.

Evidence 6886—7106.

Appendix No. 11.



REFERENCE.

Congested area coloured thus

Points at which Congestion of Traffic occurs are
shown thus

London County Council boundary is shown thus

STANFORD'S GEOGRAPHICAL ESTABLISHMENT, LONDON.

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ROYAL COMMISSION ON LONDON TRAFFIC.
PHOTOGRAPHS OF CONGESTED STREETS

HANDED IN BY
SIR ALEXANDER CARMICHAEL BRUCE,

Senior Assistant Commissioner of Police for the Metropolis.

12th and 13th November, 1903.

Evidence 7405—8064.

Plate
XXIVa.

Congested
Streets:

Sir Alexander
C. Bruce,
12th and 13th
November,
1903.

Appendix
No. 13.



PICCADILLY.



PICCADILLY CIRCUS.

ROYAL COMMISSION ON LONDON TRAFFIC.
PHOTOGRAPHS OF CONGESTED STREETS

HANDED IN BY

SIR ALEXANDER CARMICHAEL BRUCE.

Senior Assistant Commissioner of Police for the Metropolis.

2th and 13th November, 1903.

Evidence 7405—8064.

Plate
XXIVb.

*Congested
Streets.*

*Sir Alexander
C. Bruce,
12th and 13th
November
1903.*

*Appendix
No. 13.*



BLACKFRIARS BRIDGE, TRAMWAY TERMINUS.



KEW BRIDGE, TRAMWAY TERMINUS.

ROYAL COMMISSION ON LONDON TRAFFIC.
PHOTOGRAPHS OF CONGESTED STREETS

HANDED IN BY
SIR ALEXANDER CARMICHAEL BRUCE,
Senior Assistant Commissioner of Police for the Metropolis.

12th and 13th November, 1903.

Evidence 7405—8064.

Plate
XXIVc.

*Congested
Streets.*

*Sir Alexander
C. Bruce,
12th and 13th
November
1903.*

*Appendix
No. 13.*



ELEPHANT AND CASTLE.



WESTMINSTER BRIDGE, TRAMWAY TERMINUS.

ROYAL COMMISSION ON LONDON TRAFFIC.
PHOTOGRAPHS OF CONGESTED STREETS

HANDED IN BY

SIR ALEXANDER CARMICHAEL BRUCE,
Senior Assistant Commissioner of Police for the Metropolis.

12th and 13th November, 1903

Evidence 7405—8064

Plate
XXIVd.

*Congested
Streets.*

*Sir Alexander
C. Bruce,
12th and 13th
November,
1903.*

*Appendix
No. 13.*



HIGH STREET, BRENTFORD.



KING STREET, HAMMERSMITH.



ROYAL COMMISSION ON LONDON TRAFFIC.
PHOTOGRAPHS OF CONGESTED STREETS

HANDED IN BY
SIR ALEXANDER CARMICHAEL BRUCE,
Senior Assistant Commissioner of Police for the Metropolis.

12th and 13th November, 1903.

Evidence 7405-8064.

Plate
XXIVe.

*Congested
Streets.*

*Sir Alexander
C. Bruce,
12th and 13th
November,
1903.*

*Appendix
No. 13.*



SHEPHERD'S BUSH, TRAMWAY TERMINUS.



SHEPHERD'S BUSH, TRAMWAY TERMINUS.

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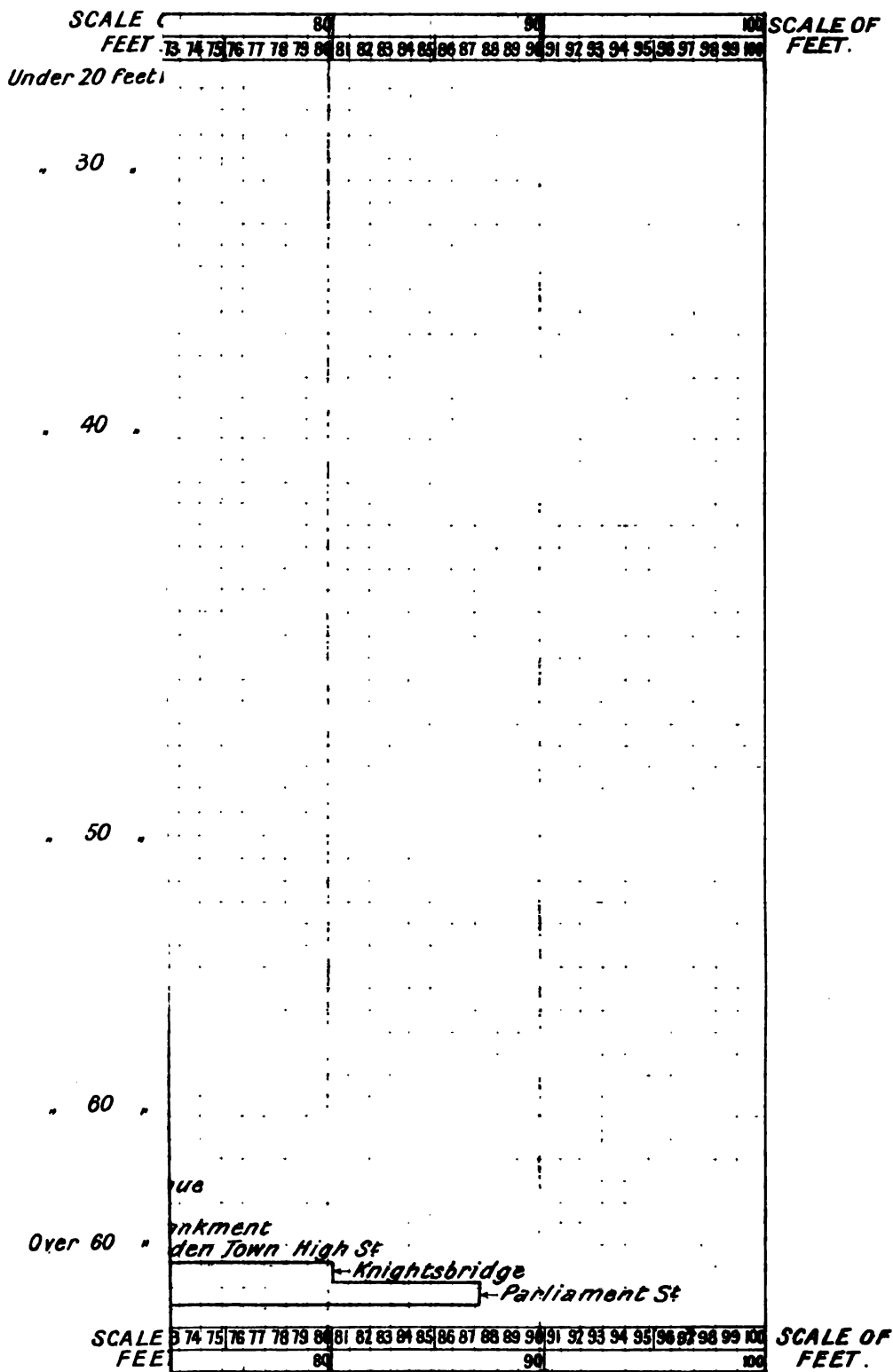
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Plate XXV.

USE OF FOOTWAYS.

Plate XXV.
RELATIVE WIDTHS
OF ROADS.
Sir A. Bruce.
13th November, 1903.
Evidence 7405—8064.
Appendix No. 13.



are TEN FEET apart and the space between them
roadway required to accommodate ONE LINE OF TRAFFIC.

METROPOLITAN POLICE
NEW SCOTLAND

Coffield & Co.
2. 11. 03

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Plate XXVI.

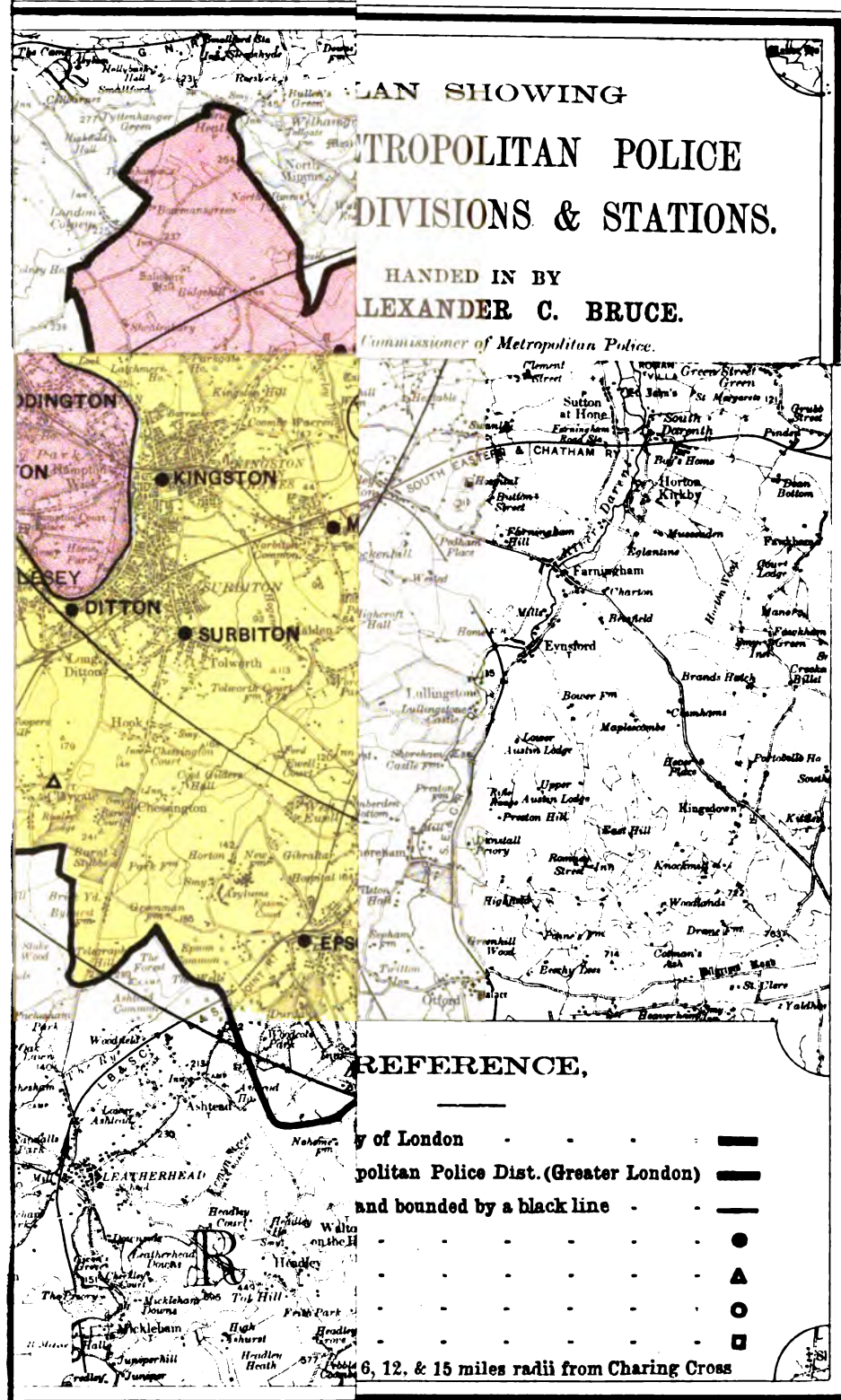


Plate XXVI.

Metropolitan Police District.

Sir A. C. Bruce.

12th & 13 Nov., 1903.

Evidence, 7405-8064.

Appendix No. 13.

PRINTED AT THE ORDNANCE SURVEY OFFICE, SOUTHAMPTON, 1904

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C.

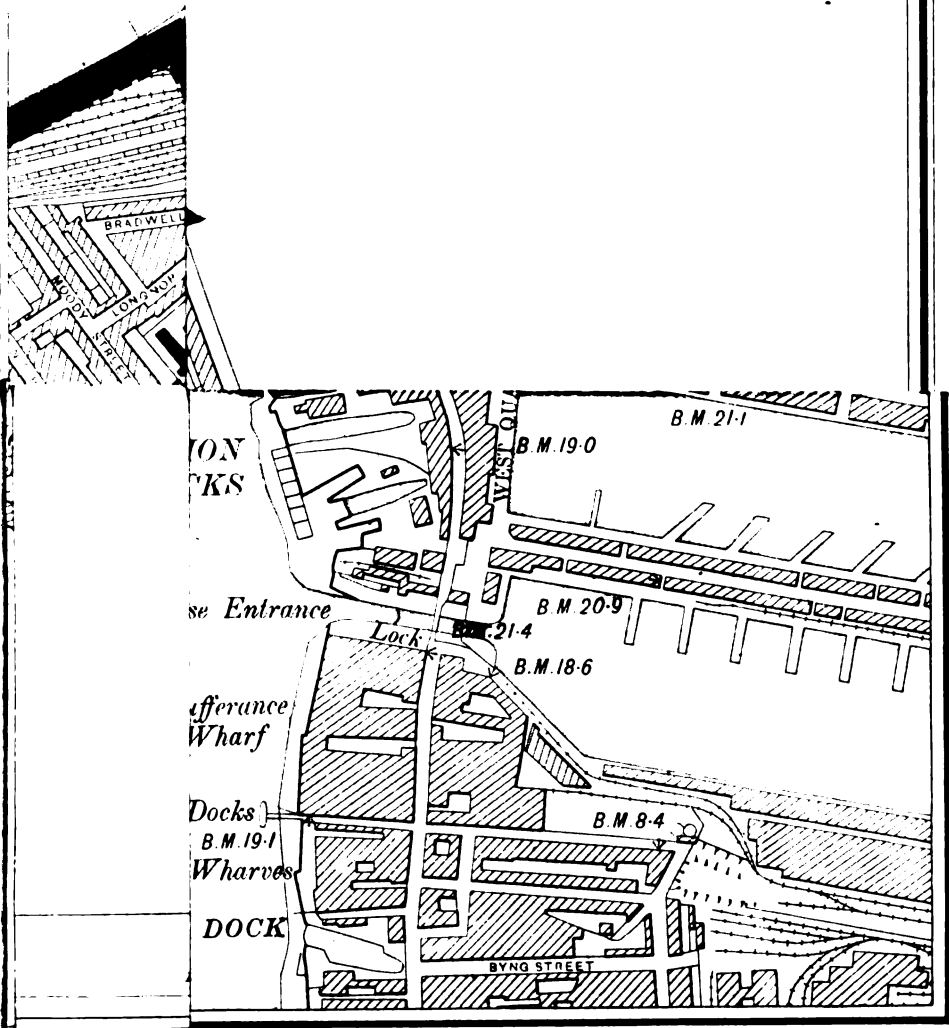
Plate XXVII.

PLAN OF THE METROPOLITAN BOROUGH OF
STEPNEY
SHOWING
CONGESTED AREAS & IMPROVEMENTS.

HANDED IN BY
MR. J. H. ROBINSON,

Alderman of the Borough of Stepney.
27th November, 1903. Evidence 9467-9856.

Plate XXVII
Stepney.
Mr. J. H. Robinson.
27th November, 1903.
Evidence, 9467-9856.
Appendix No. 17



PREPARED AND PRINTED AT THE ORDNANCE SURVEY OFFICE, SOUTHAMPTON, 1905.

Plate XXVIII

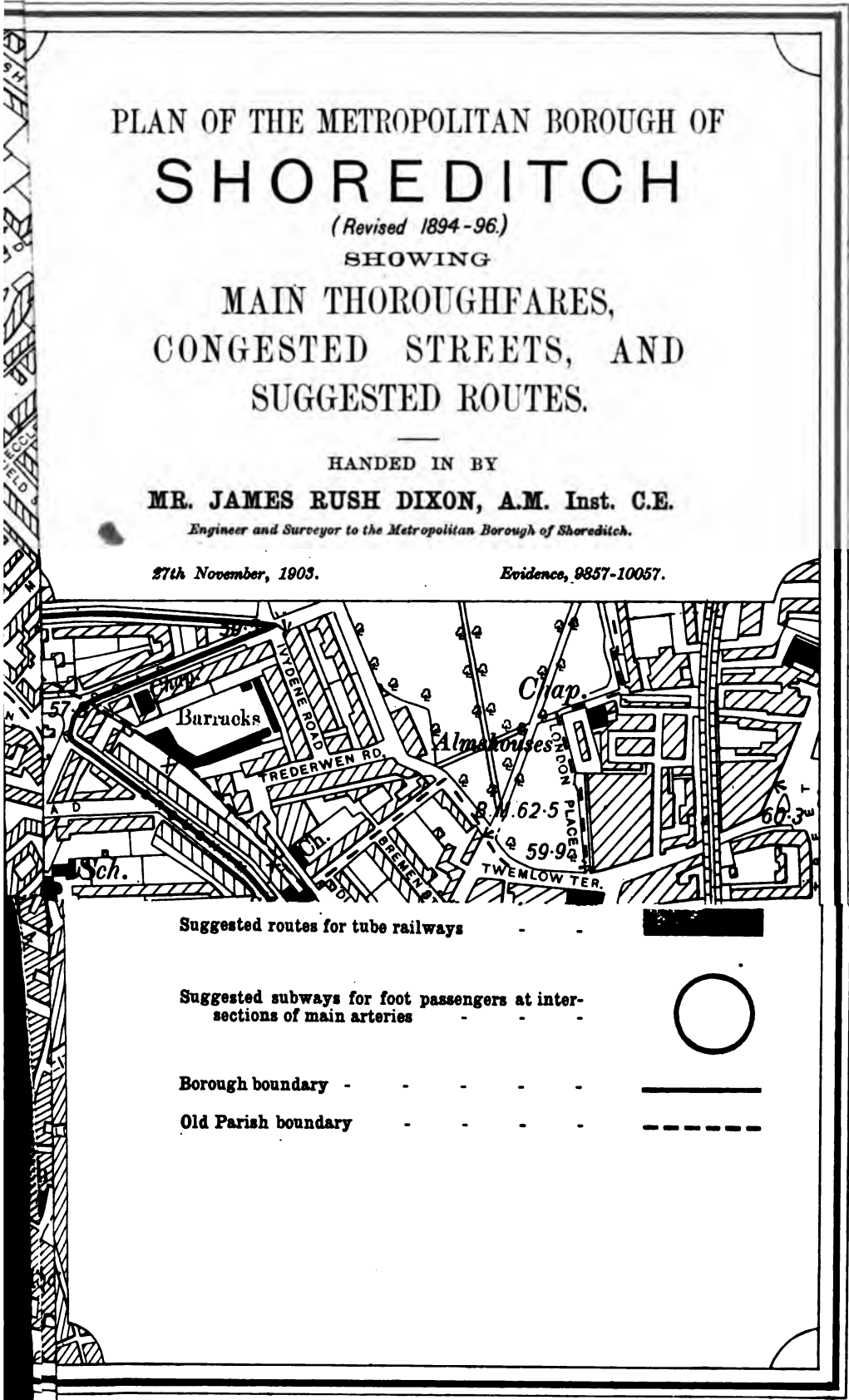


Plate XXVIII.
Shoreditch.
Mr. J. Rush Dixon.
27th November, 1903.
Evidence, 9857-10057.
Appendix No. 18.

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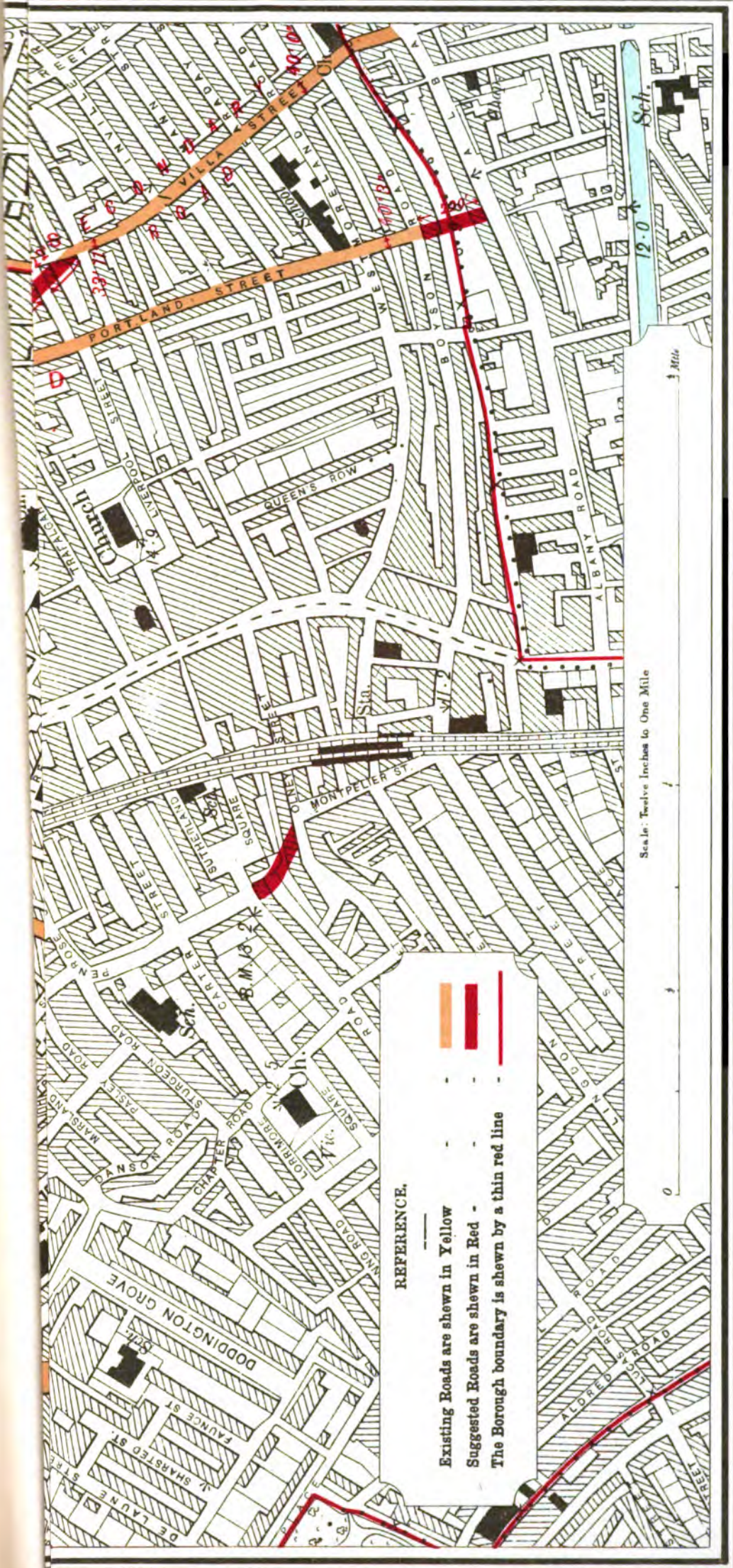
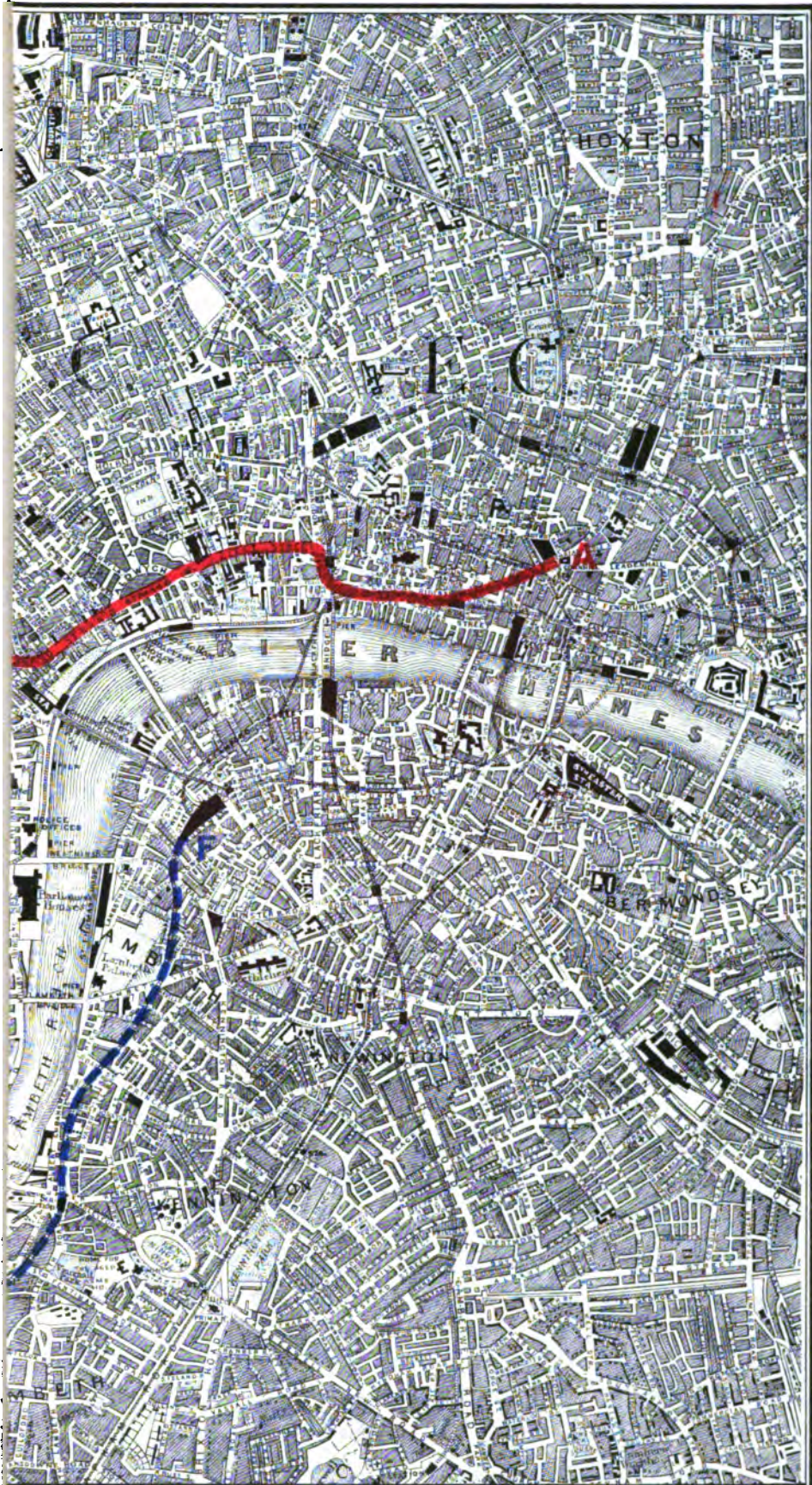


Plate XXIX.
Southwark.
Mr. A. Harrison.
3rd December, 1903.
Evidence, 10154-10330.
Appendix No. 20.

Plate XXX.



REFERENCE.

ed Tube Railway from Hammersmith Broadway to the City...	A
ed Extension of the Central London Railway from Shepherd's Bush to near the Hammersmith Broadway ...	B
ed connecting railway between the North and South-West Junction Railway and the North London Railway ...	C
ed extension of the London United Tramways from Shepherd's Bush to Holland Park Station ...	D
of the London United Tramways Ltd. for connecting with the Ham- mersmith Station of the District Railway the projected tramways at Barnes, and the existing tramways at King Street and Beadon Road...	E
ed quarter-hourly service of trains on London and South-Western line from Hammersmith ...	F

FURLONGS
MILES

Stanford's Geog' Estab' London.

Plate XXX.
Suggested Improvements.
Mr. J. M. Levy.
4th December, 1903.
Evidence 10570—10716.
Appendix No. 23.

RAFFIC.

Plate XXXII.

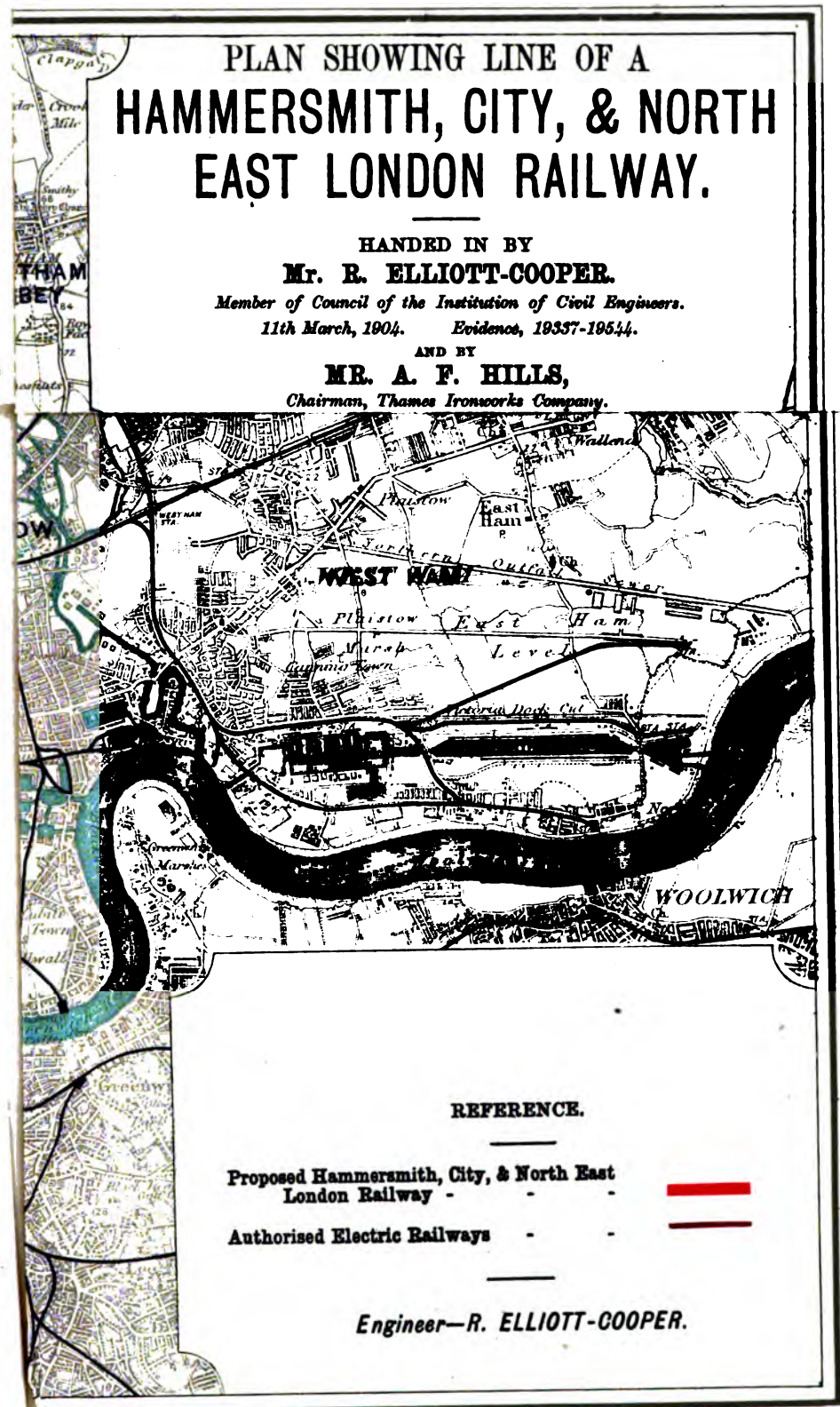


Plate XXXII
Mr. R. Elliott-Cooper.
11th March, 1904.
Evidence, 19357-19544.
Appendix No. 59.
and
Mr. A. F. Hills.
17th December, 1903.
Evidence, 18287-18488.
Appendix No. 34.

PREPARED AND PRINTED AT THE ORDNANCE SURVEY OFFICE. SOUTHAMPTON, 1905.

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